# Peabody Terrace Façade Project -PCB Remediation Plan

# Buildings B, C, X

Harvard University, Cambridge, Massachusetts





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#### 1. INTRODUCTION

Woodard & Curran has prepared this remediation plan on behalf of the President and Fellows of Harvard College (Harvard) to comply with U.S. Environmental Protection Agency (EPA) requirements for a risk-based clean-up and disposal per 40 CFR Part 761.61(c). This plan details the proposed remedial approach for polychlorinated biphenyl (PCB) bulk product waste (original caulking) and PCB remediation waste (replacement caulking, impacted building materials, and certain adjacent ground surfaces) present at Buildings B, C, and X of the Peabody Terrace housing complex (the Site) located at 900 Memorial Drive in Cambridge, Massachusetts (Figure 1-1).

This plan has been prepared as an addendum to the Building A PCB Remediation Plan submitted to EPA on February 16, 2010. This remediation is being incorporated into an overall, larger exterior façade repair and waterproofing project being conducted at the Site over a three-year period. The intent for the overall exterior façade project is to complete activities by groups of buildings. At this time, the projected schedule for completing the work is as follows:

2010: Building A, followed by Buildings B, C, and X

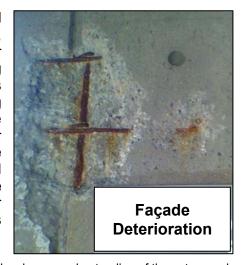
• 2011: Buildings E, F, and Y

2012: Buildings D and Z

#### 1.1 BACKGROUND

The Peabody Terrace housing complex, originally constructed in 1964, consists of three high-rise towers (Buildings X, Y, and Z; 22 stories each) and six lower rise buildings (Buildings A, B, C, D, E, and F; 3-7 stories each). The buildings are currently used for Harvard graduate student housing and contain a total of 492 apartments. Peabody Terrace also features several on-site childcare facilities, laundry rooms, common rooms, and outdoor play areas.

Certain portions of Peabody Terrace exterior concrete façades and balconies are in various stages of disrepair, including cracking, spalling, and other deteriorating conditions given the age of the buildings and other contributing factors (e.g., construction details). Harvard has been planning an extensive exterior façade repair and rehabilitation project to address these conditions, which includes replacing damaged concrete, removing and replacing exterior building caulking, and applying an exterior façade waterproofing system. The implementation of the exterior façade repair project has been segmented into three, one-year construction phases due to the number of buildings involved. The first group of buildings identified for renovation includes Buildings A, B, C and X (see Figure 1-2). As the planning stages for this project progressed, the potential for the exterior caulking to contain PCBs given the date of building construction was assessed and reviewed.



As described in the Building A Plan, Building A was used as the model to develop an understanding of the nature and extent of PCBs on the buildings. The initial Building A results collected in 2009 indicated that percent level concentrations of PCBs (up to 139,000 ppm total PCBs) were detected in samples of original exterior caulking. At that time, Harvard re-focused their efforts (i.e., collected samples from locations besides Building A) to ensure that tenants or users of Peabody Terrace were not subject to unsafe conditions based on the presence of PCBs in the exterior caulking.



Site-wide characterization samples were collected and evaluated at exterior locations with higher exposure potential and likely PCB transport pathways (i.e., designated play areas and lawns adjacent to building façades), on-site daycares and interior common rooms, apartment unit interiors, and these apartments' exterior patios and balconies. After confirming that conditions were stable in these high exposure potential areas, additional Building A characterization sampling activities were conducted through January 2010 in support of developing a remediation plan to be implemented on schedule with the original façade renovation project. Following plan development and submittal, characterization sampling was conducted on the remainder of the buildings scheduled for 2010 activities (Buildings B, C, and X) to support this plan addendum submittal.

#### 1.2 CONCEPTUAL SITE MODEL

The Building A data set indicated that percent level concentrations of PCBs were present in original exterior building caulking. Lower concentrations of PCBs in exceedance of the unrestricted use cleanup level were also detected in adjacent building concrete (vertical façades and horizontal balcony surfaces), unpaved adjacent ground surfaces (landscaped areas and soil), and a 1990's replacement caulking (interior and exterior caulking) via various migration and transport pathways.

Overall, the PCB characterization data collected from Building B, C, and X caulking and adjacent materials was consistent with the Building A data, and the Building A model described above is generally applicable to Buildings B, C, and X. Some exceptions to this model are associated with certain construction features unique to the high-rise building (Building X) as described in this plan.

#### 1.3 PLAN ORGANIZATION

This Remediation Plan is organized into the following sections:

#### **Section 2: Site Characterization**

In support of this plan and pending EPA's review (and approval) of the proposed work at Building A, characterization sampling activities were conducted at Buildings B, C, and X in March 2010. This section of the report outlines the nature and extent of PCBs in each media as supported by this characterization data.

#### **Section 3: Data Usability Assessment**

The data usability section of this report focuses on the precision, accuracy, representativeness, completeness, comparability, and sensitivity (PARCCS) parameters as well as an assessment of quality assurance / quality control (QA/QC) samples as they affect the usability of the data collected from Buildings B, C, and X.

#### **Section 4: Remediation Plan**

The remediation plan section includes a discussion of the remedial objectives and cleanup levels, the remediation approach for each PCB-affected media, a proposed sequence of activities, and a verification sampling approach. This remediation plan has been prepared according to the requirements for a 40 CFR 761.61(c) risk-based disposal request for the cleanup, disposal, and/or encapsulation of PCB remediation waste at the Site.

#### **Section 5: Communications**

This section describes the communications between Harvard and the parties at Peabody Terrace affected by current conditions and upcoming work, including residents, employees, and contractors.



# Section 6: Schedule

This section outlines a general sequence of the proposed remedial activities.



# 2. SITE CHARACTERIZATION – BUILDINGS B, C, & X

This section provides a discussion of the nature and extent of PCB-affected media encountered at Buildings B, C, and X. Characterization samples were collected from exterior façade building materials (caulking and concrete), interior surfaces (bulk and wipe samples of various media), and indoor air. The PCB-affected media are identified and described with cross-references to analytical data summary tables. Photographs of each façade of Buildings B, C, and X are provided in Appendix A.

#### 2.1 CHARACTERIZATION SAMPLE SUMMARY

In March 2010, Woodard & Curran collected a total of 9 air samples, 54 primary bulk samples, and 40 primary wipe samples from interior and exterior surfaces associated with Buildings B, C, and X. For discussion purposes, these samples have been separated into two main categories:

- 1. Residential unit characterization samples (includes any interior media within a unit, and any exterior media accessible from a patio or balcony):
  - a. Exterior balcony caulking (9 bulk samples)
  - b. Exterior balcony concrete (8 bulk samples)
  - c. Exterior patio caulking (1 bulk sample)
  - d. Exterior patio concrete (2 bulk samples)
  - e. Interior caulking (16 wipe samples and 8 bulk samples)
  - f. Interior adjacent surfaces (24 wipe samples)
  - g. Indoor air (9 samples)
- 2. Façade characterization samples (includes any media not associated with a particular residential unit):
  - a. Exterior panel caulking (3 bulk samples)
  - b. Exterior window/door caulking (3 bulk samples)
  - c. Concrete (20 bulk samples)

Summaries of the analytical results are provided in Table 2-1 (residential unit bulk and surface wipe samples), Table 2-2 (façade characterization samples), and Table 2-3 (indoor air samples). In addition to the primary samples described above, nine QA/QC samples were collected for data validation purposes, including four aqueous field blanks and five duplicate samples.

# 2.1.1 Sample Collection Methods

Caulking samples were collected by cutting and scraping the caulking from the joint with hand tools. If adjacent media (e.g., concrete or a foam backer rod) was inadvertently removed in the process of sample collection, this media was physically removed from the caulking before the sample was placed in its sample container.



Concrete sampling on horizontal and vertical surfaces (panels, columns, or slabs) was conducted by sawcutting in order to achieve the precise intervals desired to delineate migration of PCBs from a caulked joint. Cuts were made into the concrete to a depth of 0.5 inches and spanned a length necessary to achieve the required sample volume. After the cuts were made, the bulk material was chipped from the surface using hand tools and placed in the appropriate sample containers.

Wipe samples were collected in accordance with the standard wipe test as defined in 40 CFR 761.123. All samples were collected from the prescribed 100 cm<sup>2</sup> area using a laboratory-prepared gauze pad. While the standard wipe test prescribes the use of hexane-preserved gauze pads for collecting wipe samples from non-porous surfaces, some samples collected from porous surfaces (e.g., caulking) were collected using saline-preserved wipes in addition to the standard hexane wipes.

Indoor air and background outdoor air samples were collected for PCB analysis in accordance with USEPA Compendium Method TO-10A guidelines. A low volume polyurethane foam (PUF) cartridge was connected to a low-flow personal air pump with flexible tubing positioned between 3 and 5 feet above the floor. To achieve the desired minimum laboratory reporting limit of 5 nanograms per cartridge, samples were collected at a flow rate of 2.5 liters per minute for two hours (300 liter sample volume). At the end of the required sample interval, pumps were shut off and the labeled cartridges were wrapped in aluminum foil and placed on ice for delivery to the analytical laboratory.

# 2.1.2 Laboratory Analysis

All bulk and surface wipe samples were logged on standard Chain-of-Custody (COC) forms and stored on ice for delivery to Analytics Environmental Laboratory of Portsmouth, New Hampshire. All samples were extracted using USEPA Method 3540C (Soxhlet Extraction) and analyzed for PCBs using USEPA Method 8082.

All indoor and outdoor air samples were logged on standard COC forms and stored on ice for delivery to Alpha Analytical Laboratory in Mansfield, Massachusetts. All air samples were extracted and analyzed in accordance with USEPA Compendium Method TO-10A guidelines for laboratory analysis of PCB homologs in air samples.

The complete laboratory analytical reports for the characterization data are provided in Appendix B.

#### 2.2 SAMPLE COLLECTION - RESIDENTIAL UNITS

This section includes a description of the samples collected from Building B, C, and X interior and exterior locations associated with residential units, including exterior caulking and concrete accessible from patios or balconies, interior caulking and adjacent surfaces accessible from inside a unit, and indoor air. The results of these samples are presented in the context of the Building A data.

The majority of the samples were collected from each of four currently occupied units:

Building B: Unit 11-510Building C: Unit 13-32

Building X: Units 11-1103 and 11-1302

In general, the interior and exterior construction and caulking materials used at Buildings B, C, and X were observed to be similar to Building A construction materials. While the interior floor plans of many of these apartments were different from Building A interiors, the building components most relevant to this investigation (i.e., the windows and doors) were of similar construction to the analogous Building A components. The exterior balconies and patios were



also observed to be similar to Building A, where upper-floor balconies consist of original concrete and caulking, and ground-floor patios consist of newer concrete and caulking replaced within the last 15 years.

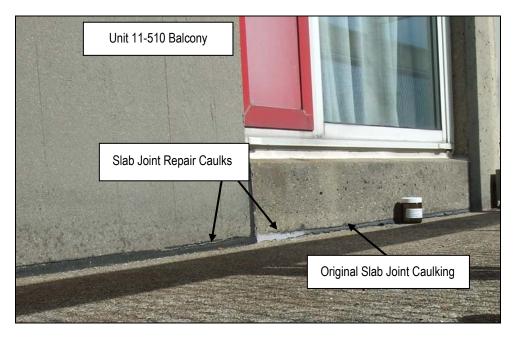
## 2.2.1 Concrete Balconies – Upper Floors

Balconies are present on the south façade of Building B and the west façades of Buildings C and X. Building B has 10 single-width and 10 double-width balconies (approximately 1,485 ft² total area), Building C has 12 single-width and 8 double-width balconies (approximately 1,385 ft² total area), and Building X has 42 single-width and 24 double-width balconies (approximately 4,455 ft² total area). Each single-width balcony measures approximately 50 ft², and each double-width balcony measures approximately 100 ft². Caulking and concrete samples were collected from balconies outside each of the four units in Buildings B, C, and X.

### **Balcony Caulking**

Balcony caulking samples were collected from three types of joints: joints around a window or door frame (white replacement caulking), wall panel joints (black original caulking), and joints at the horizontal slab to wall intersection (black original caulking). In general, each of these joints contained materials observed to be similar to their analogous joints on the balcony sampled at Building A, with the exception of the joints at the slab which contained a variety of repair caulking materials over the original black caulking still in place. At the locations where repair materials were present over original caulking, a composite of the materials was collected for analyses.

The results of the two white caulking samples collected from the balcony window joints were reported with PCBs at 25.9 and 58.8 ppm. These results are consistent with the two Building A exterior window caulking samples, which were reported with concentrations ranging between 17.5 and 57.7 ppm. The results of the caulking samples collected from wall panel joints accessible from the balcony were reported with concentrations ranging from 515 to 20,600 ppm; these levels are lower than the Building A exterior wall panel caulking concentrations which ranged from 70,400 to 131,000 ppm on balcony walls, however, Building A non-balcony wall results ranged from 158 to 8,150 ppm. The results of the caulking samples collected from horizontal slab joints were reported with concentrations ranging from 2,990 to 112,000 ppm, compared to the Building A slab joint caulking (139,000 ppm).





#### **Balcony Concrete**

Two concrete samples were collected from random locations on the balcony outside each of the four residential units. The balconies of each of these upper-floor units (i.e., not ground-level patios) were observed to be similar in construction to the upper-floor balconies at Building A. Each balcony consists of the concrete slab dating to the original building construction with no coatings present on the slabs.

Results of the eight bulk concrete samples collected from balcony surfaces were reported as non-detect in two samples, and with PCBs ranging from 0.32 to 9.59 ppm in the remaining six samples (average of 2.43 ppm). At three out of four balconies, the higher concrete concentrations on each balcony were reported at the location closer to the building face (nearest the slab caulking joint). These results are consistent with the Building A balcony concrete samples, albeit slightly lower than the Building A samples, which were reported with concentrations of 2.5 and 21.4 ppm at two locations.

Given this data, there is not a need to change any of the current remediation plans or schedule for the exterior balcony caulking (removal and encapsulation of the underlying concrete) or the concrete horizontal surfaces (encapsulation after caulking removal).

#### 2.2.2 Concrete Patios – Ground Surface

Ground-level concrete patios associated with a particular residential unit (as seen on the west face of Building A) are present along the southern face of Building B outside each of the seven ground-floor units. No patios are present outside any Building C or Building X ground-floor units. Caulking and concrete samples were collected from one patio outside of Building B at Unit 14-12.

## Patio Caulking

One patio joint caulking sample was collected from the ground-level exterior of Building B at Unit 14-12. As observed at Building A, the ground-level patio slabs appear to be new installations within the last 15 years as evidenced by a plastic expansion joint beneath the caulking that has only been used in recent standard construction practices. At both Buildings A and B, the caulking at this joint is an intact flexible gray caulking not observed at any other building joints. Consistent with the patio joint caulking concentrations reported in two samples from Building A patios (27.8 and 64.9 ppm), the patio caulking sample from Building B was reported with PCBs at 50.8 ppm.

#### Patio Concrete

Two concrete samples were collected from the surface of the patio at Building B Unit 14-12. The patio slab at this and all other Building B ground-level units appeared to be of new construction as described above. Consistent with the results reported for Building A ground-level patios (PCBs < 1 ppm), the two concrete samples from the Building B patio were reported as non-detect in both samples(< 0.33 ppm).

Given this data, there is not a need to change any of the current remediation plans or schedule for the exterior patio caulking (removal and encapsulation of the underlying concrete) or the concrete horizontal surfaces (coating after caulking removal). As with Building A, although the ground-level patio data indicate that PCBs are present below the unrestricted use cleanup level of 1 ppm in the concrete pads, the patios will be coated with an acrylic coating as part of the overall façade renovation project.

# 2.2.3 Interior Residential Unit Caulking and Accessible Surfaces

Similar to Building A units, Building B, C, and X interior residential unit caulking consists of an intact bead of white caulking around the perimeter of the metal window and door frames. Only doors leading to the outdoors (balcony or



patio doors) contain a perimeter caulking bead; interior doors leading to hallways do not contain caulking at the door frame. The interior window & door caulking was installed in the 1990s at the same time as the exterior caulking during a window replacement project. The caulking seals the window and door frames either to an adjacent concrete wall (if the frame is at the corner of a room), or to a metal edge cap over the corner of a gypsum wallboard (if the frame is not positioned adjacent to a concrete column).

The smallest units contain one standalone window and one larger window and door panel for an estimated 56 linear feet of interior caulking. The largest units contain three standalone windows and one larger window and door panel for an estimated 100 linear feet of interior caulking. There are also some units in Buildings B, C, and X between the smallest and largest sizes with a total interior caulking volume that falls somewhere within the 56 – 100 linear foot range.

#### Interior Caulking

In each of the Building B, C, and X units sampled, one window joint and one balcony door joint were selected from opposite walls for caulking sample collection. One saline wipe sample, one hexane wipe sample, and one bulk sample were collected from the same location at each selected joint. The interior construction of the joint was inspected after removing each section of caulking, and the construction was observed to be similar to Building A interior joints. No unique interior caulking materials were observed in any of the units sampled.

The results of the saline wipe samples collected from interior caulking were reported as non-detect (ND) for PCBs at 6 out of 8 locations as they were not detected above the laboratory's minimum reporting limits (< 0.5 micrograms per 100 square centimeters [ug/100cm²]), and were detected above reporting limits at two locations with a maximum concentration of 13 ug/100cm². The results of the hexane wipe samples collected from the same joints were reported with PCB concentrations ranging from ND (one sample) up to 6.5 ug/100cm², with an average result of 4.0 ug/100cm² in the hexane wipes. These results are fairly consistent with the Building A interior caulking wipe results, which were reported between ND and 21 ug/100cm² in hexane wipes and ND in all saline wipes.

The results of the bulk caulking samples collected from the same locations as the wipe samples were reported with PCB concentrations ranging from 24.3 to 525 parts per million (ppm), with an average result of 195 ppm. These results are slightly higher, but within the same magnitude range as the Building A interior bulk caulking samples, which were reported with concentrations ranging between 18.9 and 223 ppm at three locations. Of note, the higher bulk concentrations corresponded to the higher wipe concentrations.

#### Interior Adjacent Surfaces

Six surface wipe samples were collected from each apartment unit to assess interior surfaces adjacent to caulking, including walls, window frames, shelves, and floors. Sample distribution was biased to assess three locations near each caulked window or door joint that was sampled as described in the previous section. All adjacent surface wipe samples were collected from accessible surfaces using a hexane-preserved wipe over a 100 cm<sup>2</sup> sample area.

The results of all adjacent surface wipe samples collected from both apartments in Building X (Units 11-1103 and 11-1302) were all reported as non-detect for PCBs. The wipe samples collected from various media in the Building B and C apartment units were detected above reporting limits at 6 out of 12 locations, with a maximum concentration of 13.9 ug/100cm² reported for a metal door frame adjacent to a caulked joint. The other five detectable concentrations were reported for three wall samples and two floor samples, with an average result of 1.9 ug/100cm² among these samples. With the exception of the result reported at 13.9 ug/100cm², all sample results were consistent with Building A interior adjacent surface wipe results, which were reported as ND for adjacent floors, window frames, and shelves, and were reported at concentrations up to and 2.5 ug/100cm² on adjacent walls.



Given this data, there is not a need to accelerate the schedule for interior caulking remediation. However, in addition to the removal and replacement of the interior caulking, the metal door frame wipe result of 13.9 ug/100cm² indicates that a cleaning step should also be included during the replacement activities. This cleaning will entail surficial decontamination of the metal frames adjacent to interior caulking using a commercial cleaner and post-cleaning verification wipe samples. This step has been added to the proposed remediation of the interior caulking, as described in the Section 4 and the Building A remediation plan.

# 2.2.4 Other Interior Window Caulking

In addition to caulking within residential units, some Building X common areas were observed to contain an intact white caulking at the window frame perimeter (metal frame to masonry joint) at all hallway and elevator lobby windows. These hallways and lobbies are present on the 1st, 4th, 6th, 9th, 12th, 15th, 18th, and 21st floors. This caulking is similar in appearance to the white caulking observed at the window frames inside residential units. This caulking, both interior and exterior, will be managed in the same manner as described for the white caulking present inside each residential unit.

#### 2.2.5 Indoor Air

Two indoor air samples were collected for PCB analysis from each of the four Building B, C, and X units listed above to supplement the existing bulk sample and surface wipe data collected from these units. In addition, one ambient outdoor air sample was collected from the courtyard west of Building A for background comparison to indoor air concentrations.

Analytical results from these samples were reported with total PCB homologs at < 5.0 nanograms (ng) per cartridge in the outdoor air sample, as PCBs were not reported above the laboratory's minimum detection limit. The indoor air samples were reported at concentrations ranging from < 5.0 to 18.1 ng/cartridge with several not reported above the laboratory's minimum detection limit. These results translate to < 16.8 nanograms per cubic meter (ng/m³) in the background outdoor air and < 16.8 to 60.2 ng/m³ in the indoor air samples after correcting the sample volumes to ambient temperature and pressure per EPA's method TO-10A guidelines.

The average concentration in each of the four residential units was found to be 53.8 ng/m³ in Unit 11-510, 37.8 ng/m³ in Unit 13-32, and < 16.8 ng/m³ in Units 11-1103 and 11-1302. In comparison to the action levels developed for indoor air at the Site, these results were all reported below the most stringent action level of 140 ng/m³. These results are lower than the indoor air concentrations for Building A, which were reported with average indoor concentrations of 80.5 and 108.9 ng/m³ in two units. The data from both sampling events support the conclusion that interior caulking remediation activities do not warrant a more accelerated schedule than has already been proposed.

# 2.3 SAMPLE COLLECTION – FAÇADES

This section includes a description of the samples collected from Building B, C, and X exterior panel caulking, window caulking, and concrete from locations that are not associated with residential units (i.e., exterior locations not accessible from patios or balconies). The results of these samples are presented in the context of the Building A data.

In order to compare the data to Building A results, the sampling plan was developed to replicate the distribution and the selected media of the Building A samples to the greatest extent possible. Where new media or construction styles were encountered (e.g., portions of the Building X façade where no panel caulking was present), additional samples were collected to characterize this different media.



With the exception of the portions of the Building X façades that were constructed without caulking, the Building B, C, and X façades can each be compared to a Building A façade of similar construction, as summarized below:

- Balcony façades (similar to A west): B south, C west, X west
- Exposed façades with lobby entrances and many windows (similar to A east): B north, C east, X east
- Exposed façades with no entrances and little to no windows (similar to A north and south): B east, C north,
   C south, X north (elevator shaft and elevator lobby column portion only)

The southern façade of Building X and a portion of its northern façade are unique to the high-rise construction, as the majority of these façades are not constructed of pre-cast concrete panels surrounded by caulking. The only caulking apparent on these façades includes:

- Window caulking (south façade contains only one window per floor, north façade contains one small window every third floor)
- Caulking associated with balconies (balcony slab joint and window/door perimeter joints), where one
  double-width balcony is present only on floors 18, 19, 20, 21, and 22 of the southern façade.

## 2.3.1 Exterior Building Caulking

#### **Exterior Panel Caulking**

Exterior panel caulking samples were collected from non-balcony walls at three locations. Each of these joints contained materials observed to be similar to the wall panel joints at Building A, where many joints contained repair caulking materials over the original black caulking still in place. At the locations where repair materials were present over original caulking, a sample was collected from the inner layer of original caulking.

The results of the three caulking samples collected from the wall panel joints were reported with PCBs at 3,550, 10,200, and 176,000 ppm. The 176,000 ppm result is the highest concentration detected on-site thus far; the previous maximum concentration was 139,000 ppm reported for a balcony slab joint at Building A.

#### Exterior Window and Door Caulking

Exterior window and door caulking samples were collected from non-balcony walls at three locations. Each of these joints contained a white repair caulking observed to be similar to all other exterior window and door joints at Buildings A, B, C, and X. Samples from Buildings B and X were collected from window joints, and the Building C sample was collected from a lobby entry door joint.

The results of the two caulking samples collected from window joints were reported with PCBs at 16.7 and 70.4 ppm. These results are consistent with the Building A exterior window caulking samples, which were reported with concentrations ranging between 17.5 and 57.7 ppm at two locations. The result for the caulking sample collected from the lobby door joint at Building C was reported with PCBs at 2,390 ppm, which is beyond the range of concentrations expected for the caulking in a window joint. It is possible that the caulking used in original construction at the lobby door frames was different from the original window caulking, which may have resulted in this higher concentration. This sample is the first to have been collected from a lobby door joint, as all previous door caulking samples have been collected from patio or balcony doors.



Given this data, there is not a need to change any of the current remediation plans or schedule for the exterior caulking, which is caulking removal followed by encapsulation of the underlying concrete and decontamination of the metal window and door frames.

### 2.3.2 Concrete Not in Direct Contact with Caulking

Concrete was sampled from the exterior façades of Buildings B, C, and X to confirm the migration patterns observed at Building A, where decreasing levels of PCBs were observed with increasing distance from the caulking. Specifically, PCBs at concentrations > 1 ppm were observed at distances up to 12 inches beneath horizontal caulking joints and at distances up to 1.5 inches beside vertical caulking joints at Building A.

Up to six concrete samples were collected next to a pair of horizontal and vertical joints at each of the three buildings. Samples were collected from beneath horizontal joints at distances of 0 to 0.5, 6 to 6.5, and 12 to 12.5 inches from the joint, and samples were collected from beside vertical joints at distances of 0 to 0.5, 1.5 to 2, and 6 to 6.5 inches from the joint. These intervals were selected for several purposes:

- To confirm the PCB concentrations nearest to the joints (0 to 0.5 inch intervals);
- To confirm the maximum migration distance of PCBs > 1 ppm as determined from Building A data (within 1.5 inches of vertical joints and within 12 inches of horizontal joints); and,
- To characterize concrete at a distance between these two locations (6 to 6.5 inch intervals).

Samples were collected from a second floor concrete panel on the north face of Building B, from a ground floor panel on the east face of Building X, and from a ground floor concrete panel and floor slab on the west face of Building C. The Building B and X samples were from exposed faces (no overhanging roof or balconies present), and the Building C samples were from a sheltered face (beneath overhead balconies).

The results of the samples beside vertical joints indicated that, similar to Building A, detectable concentrations of PCBs had spread laterally from the vertical joints to a distance of at least three inches. In the case of the Building B samples, detectable concentrations of PCBs were reported at a distance at six inches from the vertical joint. At Building A and at the Buildings C and X locations, concentrations greater than 1 ppm were observed at a maximum distance of 1.5 inches from the joint; however, the Building B 1.5 to 2.0 inch interval result was reported at a concentration of 1.16 ppm, slightly over 1 ppm.

**Migration of PCBs Beside Vertical Joints** 

Sample Interval (inches from joint)	Building B North Face	Building C West Face	Building X East Face		
0.0 - 0.5	172	83.9	135		
1.5 – 2.0	1.16	< 0.33	< 0.33		
6.0 – 6.5	0.39	< 0.33	< 0.33		

Note: Sample results presented in parts per million.

The results of the samples beneath horizontal joints confirmed that detectable concentrations of PCBs have spread beneath the joints to a distance of at least twelve inches. PCB concentrations decreased below 1 ppm at a distance of 6 inches beneath the joint at all three locations, but were detected again at 9.81 ppm at a distance of 12 inches beneath the Building X horizontal joint. This data set also confirms that the absorption of PCBs by concrete panels



appears to be similar to the absorption of PCBs by concrete columns and slabs, as demonstrated by the Building C results from the floor slab beneath the horizontal joint.

Migration of PCBs Beneath Horizontal Joints

Sample Interval (inches from joint)	Building B North Face	Building C West Face	Building X East Face
0.0 – 0.5	253	108	467
6.0 – 6.5	0.633	< 0.33	< 0.33
12.0 – 12.5	< 0.33		9.81

Note: Sample results presented in parts per million. No 12-12.5 inch sample was collected at Building C as the sampled floor slab was less than 12 inches thick.

In the 0 to 0.5 inch sample interval next to both horizontal and vertical joints, PCB concentrations were reported between 83.9 and 467 ppm (average result of 203 ppm). These results are higher than the Building A samples from 0 to 0.5 inches (range of concentrations from 25 to 132 ppm), but are not unexpectedly high considering the levels of PCBs present in the adjacent caulking.

Given that the PCB migration pattern beneath horizontal joints and beside vertical joints at Buildings B, C, and X was generally similar with some exceptions to the Building A model, the remediation plan includes surficial coating (encapsulation) of all exterior concrete surfaces. Given this data and in the context of the plan, there is not a need to change any of the current remediation plans or schedule for the exterior concrete.

It is noted that no additional characterization samples of concrete in direct contact with the exterior caulking were collected for analyses from Buildings B, C, and X. It has been assumed that all direct contact concrete will contain concentrations of PCBs and will be encapsulated with the epoxy coating.

#### Building X North and South Façade Concrete

In addition to the concrete samples collected from locations adjacent to caulking joints, two concrete samples were collected from locations on the north and south façades of Building X that were representative of portions of the high-rise construction without caulking. As predicted by the Building A model (i.e., the exterior caulking is the source of PCB impacts to concrete), no detectable concentrations of PCBs were reported in either of the two concrete samples collected from the Building X facades without caulking in the construction.

While the data indicates that the concrete at these locations does not require remediation (encapsulation), the treatment of these surfaces will be determined by the scope of the façade repair and waterproofing project and may include a protective coating application.

### 2.4 ADJACENT GROUND SURFACES

No samples were collected from adjacent ground surfaces surrounding Buildings B, C, and X during this characterization phase. Because the exterior façade characterization data for Buildings B, C, and X are consistent with the façade data for Building A, it is reasonable to assume that PCB leaching and transport from these buildings would be similar to Building A. In all adjacent asphalt, brick, and concrete ground surface characterization samples collected around Building A, results were reported with PCB concentrations < 1 ppm. As such, there is no evidence to suggest that paved ground surface coverings adjacent to Buildings B, C, and X would contain PCBs at concentrations > 1 ppm.



In September 2009, two soil samples were collected from the lawn area south of Building B as part of initial site characterization activities (0.23 and 1.15 ppm). No other lawn areas are present next to other façades of Building B or any façades of Buildings C or X, and no additional soil samples have been collected outside of these buildings. However, characterization samples of other unpaved adjacent ground surfaces (stone- or mulch-covered soils) next to Buildings B, C, and X will be collected at a later date as part of the soil remediation plan development.



### 3. DATA USABILITY ASSESSMENT

This data quality and data usability assessment has been conducted to review the 103 primary samples collected to date in support of Building B, C, and X characterization activities. This precision, accuracy, representativeness, completeness, comparability, and sensitivity (PARCCS) evaluation includes an assessment of those parameters as well as quality assurance / quality control (QA/QC) samples as they affect the usability of sample results. These indicators have been examined in the context of the intended use of the data, and an overall assessment of site conditions.

Data validation and review was conducted both by W&C and by a third-party validator, Data Check, Inc. of New Durham, New Hampshire, according to a modified Tier II validation procedure. This review included a completeness check of field documentation including sample collection and preservation methods, a completeness check of the laboratory data and documentation, a review of the internal laboratory QA/QC procedures and results including surrogate recoveries, matrix spike and matrix spike duplicate results, blank results, and laboratory control standard results, and an evaluation of sample holding times, trip blank results, and field duplicate results. The assessment was performed in general conformance with USEPA Region I Guidelines and the Quality Control Guidelines for the Acquisition. Data Check's data validation summary is provided with the laboratory analytical reports in Appendix B.

All bulk and surface wipe samples received by Analytics Environmental Laboratory of Portsmouth, New Hampshire were extracted by USEPA Method 3540C (Soxhlet Extraction) and analyzed for PCBs by USEPA Method 8082. All air samples were received by Alpha Analytical Laboratory of Mansfield, Massachusetts for PCB analysis in accordance with USEPA Compendium Method TO-10A guidelines.

#### 3.1 PRECISION

To assess precision, field duplicate samples were collected at an approximate frequency of one duplicate sample per twenty primary samples during the characterization sampling activities, with the exception indoor air sampling. A total of five duplicate samples were collected to analyze the precision of the primary sample results. Relative percent differences (RPDs) between the primary and associated duplicate samples were within acceptance criteria (≤ 50% for solid matrices) for all five sample pairs, and no data qualifiers were applied.

Precision was also assessed by examining the RPD between column results in comparison to acceptance criteria (≤25%). Column results typically differ in solid matrices due to heterogeneities inherent to the sample matrix. Whether or not the RPD meets acceptance criteria, the laboratory reports the higher of the two column results. Qualifiers were applied to the Aroclor 1254 results for 16 samples due to column results reported outside RPD acceptance criteria. These qualifiers are included in the analytical summary tables provided with this report.

#### 3.2 ACCURACY

Accuracy of the analytical data was assessed by reviewing recoveries for matrix spikes (MS), matrix spike duplicates (MSD), surrogates, laboratory control samples (LCS) and laboratory control sample duplicates (LCSD). After review of this information, no qualifications were applied to the data as a result of MS/MSD percent recoveries. Surrogate recoveries and LCS/LCSD recoveries were reported outside of acceptance criteria in three samples reported by the laboratory as non-detect for PCBs; these samples were qualified as estimated ("UJ") for the applicable Aroclors.



#### 3.3 REPRESENTATIVENESS

Consistent procedures and laboratory analysis of the data were achieved. Sample containers were packed on ice and were accompanied by complete chain of custody forms from the time of sample collection until laboratory delivery. All samples were extracted and analyzed within the recommended 14-day holding time for the extraction method. No analytes were detected in the laboratory method blank analyses with one exception where Aroclor 1254 was detected at 0.763 ppm in one method blank. As reported in the data validation summary prepared by Data Check, no qualifiers were applied to the data since all associated samples were ND for Aroclor 1254, or, the sample concentration was greater than the blank action concentration.

Field equipment blank samples, collected at an approximate frequency of one per twenty primary samples during this sampling event, were non-detect for PCBs in all four field blank samples; no qualifications were applied to the data.

#### 3.4 COMPLETENESS

Completeness is a measure of the amount of valid data obtained from a measurement system compared to the amount of valid data expected. The data packages were reviewed to ensure that all sample and associated quality assurance results were available. Results of the completeness review indicated that all collected samples were analyzed and all quality control results were available to complete the data validation process with one exception: one sample was damaged during the extraction process and re-analyses could not be performed (wipe sample) as reported in the narrative of Analytics report #65979. No result was reported for this sample, and the sample was not recollected.

#### 3.5 COMPARABILITY

Comparability measures the degree of confidence with which one data set can be compared to a related set of data. Based on a review of established standard methods and procedures for collection, analysis, and reporting of data, the data collected during this sampling event are considered to have met the requirements for comparability.

#### 3.6 SENSITIVITY

Sensitivity was evaluated based on a review of the sample quantitation and reported quantitation limits. Laboratory reported detection limits typically met the site data quality objective (reporting limit  $\leq 1$  ppm for bulk samples and  $< 0.5 \,\mu g/100 \, cm^2$  for wipe samples), but sample dilutions did not make it possible to meet this objective for many of the characterization samples due to elevated PCB concentrations in these samples. In each instance where a sample was reported with an elevated detection limit, the reported concentration was indicative of PCB Remediation Waste or Bulk Product Waste, and the material represented by that sample has been included in the scope of this remediation plan. As such, those samples reported with elevated detection limits do not affect the overall quality of the data given that the data provided the information needed to develop the remediation plan.

#### 3.7 CONCLUSION

Based on a review of the analytical results with regards to the PARCCS parameters, this data quality / data usability assessment indicates that the characterization data is of sufficient quality for use in developing the conceptual site model and the remediation plan presented herein.



#### 4. REMEDIATION PLAN

This section details the proposed remediation of PCB-affected media at Buildings B, C, and X of Peabody Terrace. In general, the PCB characterization data collected from Buildings B, C, and X support the model developed for Building A, and the remediation plan developed for Building A will be carried forward for Buildings B, C, and X.

In support of the proposed remediation activities, additional pilot testing of the selected products and methods is ongoing (similar tests as performed on Building A are being performed at Buildings B and X). The results of these tests will be forwarded to EPA upon completion.

### 4.1 REMEDIATION OVERVIEW

The remediation plan proposed herein is a risk-based request prepared in accordance with 40 CFR Part 761.61(c). While all caulking and soils containing PCBs > 1 ppm will be removed for off-site disposal, the majority of the PCB-impacted concrete will remain in-place and be encapsulated with a protective coating. The on-site encapsulation of PCB remediation waste is an interim solution designed to shield impacted building materials from the effects of weathering and leaching mechanisms, thereby eliminating potential exposure pathways and mitigating the potential for PCB transfer via direct contact and/or leaching to other media/materials. Accordingly, there will be no resultant exposure to PCBs in the contained concrete, resulting in conditions protective of human health and the environment. This approach is considered an interim measure, which was considered to be preferable over a concrete removal option given the structural and waterproofing concerns as well as the architectural significance of the buildings. Proper disposal of any remaining PCB remediation waste will be required upon removal of the material or at the time of building demolition.

The remediation plan consists of an exposure pathway elimination approach that will minimize the level of disruption to tenants and allow the families to stay within the apartment units during the remediation work. The proposed sequence of remediation activities is the same as for Building A, and includes the following:

- Removal and off-site disposal of all exterior caulking, including:
  - Original caulking (PCB bulk product waste) double bead panel & column caulking on Buildings B and C (combined total of 7,665 linear feet) and Building X (19,700 linear feet):
    - Horizontal and vertical joints between façade panels and columns;
    - Upper-floor balcony slab joints;
  - Replacement caulking (PCB remediation waste) newer caulking installed in/around the 1990's on Buildings B and C (combined total of 5,600 linear feet) and Building X (9,735 linear feet):
    - Window and door joints:
    - Ground-floor patio slab joints.
- On-site encapsulation of exterior concrete in direct contact with caulking (within joints)
  - Encapsulate with two coats of a liquid epoxy, such as Sikagard 62 or equivalent.
- Surficial cleaning of metal window & door frames in direct contact with caulking:
  - The metal window & door frames will be subject to surficial cleaning after caulking removal; extent
    of cleaning to be verified by visual inspections and surface wipe samples.



- Application of replacement caulking within encapsulated joints (Sikaflex 2C, or equivalent).
- Conduct façade repairs as needed (concrete removal and replacement in deteriorated areas).
- Power washing of the exterior concrete façade following new caulking application.
- Encapsulation of exterior concrete not in direct contact with caulking (two coats of an acrylic coating, such as Sikagard 670W or equivalent)
  - High-occupancy areas (ground floor exterior walls, balcony/patio vertical surfaces) remediation of surfaces with PCBs > 1 ppm (extent is limited to concrete within 1.5 inches of vertical panel joints and within 12 inches of horizontal panel joints).
  - Low-occupancy areas (exterior walls at 2<sup>nd</sup> floor level and higher; no balcony access) remediation
    of surfaces with PCBs > 25 ppm (extent is limited to concrete within 0.5 inches of vertical and
    horizontal joints).
  - NOTE: Although PCBs impacts are limited to measurable distances from caulking joints, the
    project team has decided to apply the clear acrylic protective coating (e.g., Sikagard 670W or
    equivalent, and potentially an additional corrosion inhibitor coating) to all exposed exterior concrete
    surfaces.
- On-site encapsulation of balconies horizontal concrete surfaces not in direct contact with caulking:
  - Given PCBs > 1 ppm and limitations to removal, the surfaces will be encapsulated with a liquid balcony coating system designed for weatherproofing, such as BASF Sonoguard, or equivalent.
- Remediation of ground level surfaces:
  - Concrete patios although all data indicates these surfaces meet the high-occupancy cleanup level of 1 ppm, they will be coated with the same product used on the vertical surfaces (clear acrylic coating, such as Sikagard 670W) for weatherproofing and consistency purposes.
  - Soil (grass-covered, mulch-covered, stone-covered)
    - All soils with PCBs > 1 ppm will be excavated for off-site disposal.
- Removal of interior window & door caulking
  - o Interior caulking will be removed, metal window/door frames will be cleaned, and new caulking will be installed. Following replacement, a metal trim or a flexible strip will be installed over the new caulking to prevent future direct contact with this material.
- Record deed notice, as required
- Ongoing monitoring and maintenance of encapsulated areas.

In addition to descriptions of the proposed remediation activities outlined above, the following sections provide details on the proposed site preparations and controls, perimeter air monitoring, verification sampling plans, waste storage and disposal, site restoration, and recordkeeping requirements. The activities are presented in the order of the proposed implementation sequence. Many of these activities will be conducted in the same manner as written in the Building A Plan, and portions of this plan refers the reader back to the Building A Plan for additional details.

Throughout implementation and upon remedy completion, the approach to each step of the remediation will be reevaluated to determine whether any plan modifications should be made prior to beginning work at other buildings.



#### 4.2 SITE PREPARATION AND CONTROLS

For Buildings B, C, and the lower levels of Building X, site preparation and controls will be implemented as described in Section 5.2 of the Building A Plan. For the higher levels of Building X, access to the removal areas will be gained by a combination of staging mechanisms depending on the façade configurations. Engineering controls to manage dust and debris in these work areas will be implemented as described in Section 5.2 of the Building A Plan.

#### 4.3 EXTERIOR CAULKING REMOVAL

The exterior caulking data reported for Buildings B, C, and X follow the Building A model, with PCB concentrations indicative of original caulking (PCB bulk product waste) present within panel joints and balcony joints, and concentrations indicative of replacement caulking (PCB remediation waste) present in window, door, and other joints subject to past repairs. As outlined in the Building A Remediation Plan, all caulking containing PCBs > 1 ppm will require removal and off-site disposal.

The caulking removal task includes the removal and off-site disposal of the exterior caulking at Buildings B, C, and X. This consists of 7,665 linear feet (Buildings B/C) and 19,700 linear feet (Building X) of double bead panel & column caulking defined as PCB bulk product waste (27,365 linear feet total). Caulking removal also includes 5,600 linear feet (Buildings B/C) and 9,735 linear feet (Building X) of replacement window & door caulking defined as PCB remediation waste (15,335 linear feet total). The caulking removal will be conducted as described in Section 5.3 of the Building A Plan.

#### 4.4 MATERIALS IN DIRECT CONTACT WITH CAULKING

#### 4.4.1 Concrete in Direct Contact with Caulking

Building B, C, and X characterization activities did not include sampling concrete in direct contact with caulking. However, as described in Section 2 of the Building A Plan, the concrete in direct contact with caulking (i.e., within the joints) has been shown to contain PCBs > 1 ppm. Because the physical removal of PCBs to  $\leq$  1 ppm in concrete in direct contact with the caulking is infeasible given structural and waterproofing concerns, aesthetic and architectural concerns, and the anticipated disturbance to tenants within the occupied building, a risk-based remedial approach has been developed. The proposed remedial technique for concrete in direct contact with caulking is encapsulation with two coats of a liquid epoxy, such as Sikagard 62 or equivalent.

The remainder of this section summarizes the locations and approximate quantities of concrete in direct contact with caulking at Buildings B, C, and X, and also includes a proposed baseline sampling plan.

The concrete in direct contact with caulking is present at the following locations:

- Exterior façade panels & columns (concrete to concrete joints)
  - Direct contact concrete material exists within horizontal joints above and below each floor slab, within vertical joints between concrete panels and columns, and within short vertical seams beneath patio/balcony windows and doors.
  - Exists along all 27,365 linear feet of the concrete to concrete joints
    - Joint depths range from 1-2 inches into building
    - Direct contact concrete present on both interior returns of the joint (27,365 x 2 = 54,730 ft)



- Balcony horizontal seams (concrete to concrete joints)
  - Direct contact concrete material exists at the edge of upper floor balconies where the horizontal concrete balcony slab meets the vertical wall
  - Linear footage is counted within the 27,365 feet of the concrete to concrete joints listed above
- Patio horizontal seams (concrete to concrete joints)
  - Direct contact concrete material exists at the edge of the ground level patio horizontal concrete pads where the horizontal surface meets the vertical wall
  - Exists along approximately 77 feet of the concrete to concrete patio ground level concrete joints
  - Included in scope of work given PCB concentrations in caulking at the pad to wall joint; although the concrete pad contains PCBs < 1 ppm, the concentrations in the new caulking indicate that a former PCB-containing caulking was present at this location and is likely to have impacted the underlying concrete on the wall portion of this joint.
- Windows & doors (concrete to metal joints)
  - Direct contact concrete material exists within horizontal and vertical window and door joints
  - Exists along all 15,335 feet of the concrete to metal (window / door) joints
    - Joint depths range from 1-2 inches into building
    - Direct contact concrete present on a single interior return (the second interior return consists of a metal window/door frame)

Surface preparation for the selected remedial action includes a visual verification of caulking removal as described in the previous section; no physical removal or chemical decontamination of the concrete will be conducted. After this inspection step, baseline bulk concrete samples will be collected from representative locations to document the baseline (existing) PCB concentrations that remain beneath the encapsulant. The proposed baseline sampling frequency is based on the four different types of masonry joints as summarized in the table below:

Table 4-1: Direct Contact Concrete Baseline Sampling Summary

Joint Type	В	С	Х	Total					
Concrete to concrete panel/column joints	1 North façade 1 East façade 1 South façade	1 North façade 1 East façade 1 South façade 1 West façade	1 East façade 1 West façade	9					
Concrete to metal window and door joints	1 North façade 1 South façade	1 North façade 1 East façade 1 West façade	2 East façade 2 West façade	9					
Concrete to concrete bal cony joints	2 South façade	2 South façade 2 West façade		7					
Concrete to concrete patio joints	2 South façade	N/A	N/A	2					
Total direct contact concrete baseline samples:									



No characterization data has been collected from the concrete in direct contact with caulking at Buildings B, C, and X to date, so no existing data will be carried forward to use as baseline data.

Concrete samples will be collected in accordance with the USEPA Region I Draft Standard Operating Procedure for Sampling Concrete in the Field (December 1997). The specific sample locations will be randomly selected, using a random number generator to select the unit and the length along the joint for sample collection; however, all samples will be located on ground-floor elevations or balcony-accessible surfaces given the higher potential for direct contact exposures. Duplicate samples and field equipment blanks will be collected at a frequency of one per 20 primary samples and submitted to the laboratory as part of the QA/QC procedures associated with the sample collection.

After baseline concrete sampling, the concrete in direct contact with the former caulking will be encapsulated with two coats of a protective, epoxy coating such as Sikagard 62, Sikadur 35, or equivalent. Sikagard 62 has been used to successfully encapsulate residual concentrations of PCBs at similar remediation sites, and both Sikagard 62 and Sikadur 35 were used during the pilot tests at Building A. The product technical specifications for these products are provided in the Building A Plan.

After epoxy encapsulation, baseline surface wipe samples will be collected from the same locations as the baseline bulk concrete samples to evaluate the effectiveness of the encapsulation and establish a baseline for future monitoring. As described above, this will include sample collection from a total of 27 locations. Wipe samples will be collected using hexane-saturated gauze wipes in accordance with the standard wipe test method (40 CFR 761.123). Duplicate samples and field equipment blanks will be collected at a frequency of 1 per 20 primary samples and submitted to the laboratory as part of the QA/QC procedures associated with sample collection.

Analytical results from the wipe samples of the epoxy will be evaluated to determine whether or not this task is complete as follows:

- Analytical results ≤ 1 µg/100 cm² task complete and new caulking can be applied.
- Analytical results > 1 μg/100 cm² additional application of epoxy is needed, and additional verification wipe samples to be collected at an off-set location.

#### 4.4.2 Metal in Direct Contact with Caulking

The metal window and door frames within the façades are each sealed to the adjacent exterior concrete with a bead of white caulking, installed as replacement material in the 1990s. After caulking removal, the proposed remedial technique for Building B, C, and X's combined 15,335 linear feet of metal window and door frames in direct contact with the former caulking is surficial cleaning using hand tools followed by cleaning with a commercially available cleaner. No grinding, sawcutting, or physical removal of the window/door frames will be conducted.

After a visual verification of caulking removal and surficial cleaning, verification surface wipe samples will be collected from representative locations to verify that the surface preparation is complete. Analytical results from the wipe samples of the metal surfaces will be evaluated to determine whether or not caulking removal was complete as follows:

- Analytical results ≤ 10 µg/100 cm² caulking removal complete and new caulking can be applied.
- Analytical results > 10 μg/100 cm<sup>2</sup> additional cleaning of metal frames is needed, and additional verification wipe samples to be collected at an off-set location.

There are approximately 195 windows or doors present on Buildings B and C, and approximately 282 windows or doors present on Building X. The proposed verification sampling frequency is to collect 1 sample from every 10



windows or doors for an approximate total of 48 primary verification wipe samples. The specific locations of the verification samples will be randomly selected, using a random number generator to select the window/door unit and the length along the joint for sample collection.

Wipe samples will be collected using hexane-saturated gauze wipes in accordance with the standard wipe test method (40 CFR 761.123). Duplicate samples and field equipment blanks will be collected at a frequency of 1 per 20 primary samples and submitted to the laboratory as part of the QA/QC procedures associated with sample collection.

Following wipe testing and achievement of the cleanup levels indicated above, new caulking will be applied to seal the joint.

# 4.5 NEW CAULKING APPLICATION

New caulking application will be conducted at Buildings B, C, and X in the same manner as proposed for Building A; refer to Section 5.5 of the Building A Plan.

#### 4.6 CONCRETE REPAIRS

Concrete repairs will be conducted at Buildings B, C, and X in the same manner as proposed for Building A; refer to Section 5.6 of the Building A Plan.

### 4.7 FAÇADE POWER WASHING

Façade power washing at Buildings B, C, and X will be conducted as described in Section 5.7 of the Building A Plan. Depending on the initial sample results from the contained wash water from Building A, modifications to this plan may be proposed, such as eliminating the containment process if PCBs are not detected in the wash water.

#### 4.8 VERTICAL CONCRETE SURFACES NOT IN DIRECT CONTACT WITH CAULKING

Exterior concrete data from Building B, C, and X façades typically followed the Building A model, with PCB concentrations decreasing with increasing distance from caulked joints, and migration extending further beneath horizontal joints. Building A data had indicated that PCB concentrations decreased below 1 ppm within 12 inches of horizontal joints; however, one Building X concrete sample at a distance of 12 inches beneath a horizontal joint was reported with PCBs > 1 ppm (9.81 ppm). This result does not change the proposed scope of remediation, as the remediation plan includes surficial coating (encapsulation) of all exterior concrete surfaces with a clear acrylic protective coating (e.g., Sikagard 670W or equivalent). The highest reported PCB concentrations for all vertical concrete surfaces (between a 1 and 100 ppm order of magnitude) have been successfully encapsulated during pilot test work conducted on the north façade of Building A in November 2009.

Given structural and aesthetic concerns as well as the potential to disturb tenants, no physical removal or chemical decontamination of the concrete will be conducted. The PCBs present in the façade concrete will be encapsulated in place to achieve a barrier such that exposure to residual PCBs is eliminated at the surface. The concrete requiring remedial actions includes concrete panels and columns on all façades of Buildings B, C, and X. The approximate area of these vertical surfaces, less windows and doors, measures approximately 23,000 square feet on Buildings B and C and approximately 78,000 square feet on Building X.

Prior to application of the acrylic coating, the concrete surfaces will be sampled to collect baseline bulk concrete data. Where available, the characterization data collected in March 2010 will be carried forward to use as baseline data. New baseline samples will be collected from representative locations to document the baseline (existing) PCB



concentrations that remain beneath the encapsulant. Concrete samples will be collected in accordance with the USEPA Region I Draft Standard Operating Procedure for Sampling Concrete in the Field (December 1997). The proposed baseline sampling plan is summarized in the following table:

Table 4-2: Direct Contact Concrete Baseline Sampling Summary

Façade	Baseline Samples	В	С	Х	Total		
North	Existing characterization data	2	0	1	3		
NOItii	Additional samples proposed	0	2	1	3		
East	Existing characterization data	0	0	2	2		
EdSl	Additional samples proposed	1	1	2	4		
South	Existing characterization data	0	0	1	1		
Jouin	Additional samples proposed	2	1	1	4		
West	Existing characterization data	N/A	2	0	2		
West	Additional samples proposed	N/A	0	4	4		
Total existing characterization sample data points:							
	Total addi	tion al sample	e data points	s proposed:	15		

In general, the baseline sampling plan was developed to include one sample location from building facades with a relatively small area (B east, C east & south), two samples from mid-sized façades (B north & south, C north & west, and X north and south), and four samples from the façades with the largest area (X east & west). The specific sample locations will be selected using a random number generator to select the unit, but will be biased to sample the concrete within three inches of a caulked joint given the known higher concentrations, and at ground-floor or balcony elevations given the higher potential for direct contact exposures at these locations. Duplicate samples and field equipment blanks will be collected at a frequency of 1 per 20 primary samples and submitted to the laboratory as part of the QA/QC procedures associated with the sample collection.

After sampling, the surfaces will be patched at sample locations and prepared so that they are dry, clean, and free of significant cracks or pitting. The Sikagard 670W coating, or equivalent, will be applied directly to the concrete to create a containment barrier encapsulating the residual PCBs in the concrete façade. Pilot test data from Building A demonstrated that applying two coats of the Sikagard 670W served as an effective barrier to PCBs in the concrete.

Baseline surface wipe samples will be collected from the encapsulated surfaces at the same locations as the baseline bulk concrete samples to evaluate the effectiveness of the encapsulation and establish a baseline for future monitoring. As described above, this will include sample collection from a total of 23 locations. Wipe samples will be collected using hexane-saturated gauze wipes in accordance with the standard wipe test method (40 CFR 761.123). Duplicate samples and field equipment blanks will be collected at a frequency of 1 per 20 primary samples and submitted to the laboratory as part of the QA/QC procedures associated with sample collection.

Analytical results from the wipe samples of the acrylic coating will be evaluated to determine whether or not this task is complete as follows:

- Analytical results ≤ 1 µg/100 cm<sup>2</sup> task complete.
- Analytical results > 1 μg/100 cm<sup>2</sup> additional application of the coating is required on the ground surface (east, south, and north facades) or balcony/patio areas (west façade), and additional verification wipe samples to be collected at an off-set location.



# 4.8.1 Building X Façade Sections Without Panel Caulking

Concrete samples collected from two first-floor façade locations on Building X where the façade does not contain caulked joints between panels and floor slabs were reported as non-detect for PCBs. While the data indicates that the concrete at these locations does not require remediation (encapsulation), the scope of the façade repair and waterproofing project includes the coating of these façades in the same way as all other facades. This will include treating the concrete with a corrosion inhibitor and applying an acrylic protective coating system on all exterior concrete surfaces.

#### 4.9 CONCRETE BALCONY AND PATIO SURFACES

The balcony concrete data reported for Buildings B, C, and X follow the Building A model (PCBs > 1 ppm), and the remediation of these surfaces will be conducted as described in Section 5.9 of the Building A Plan. Building B has 10 single-width and 10 double-width balconies (approximately 1,485 ft² total area), Building C has 12 single-width and 8 double-width balconies (approximately 1,385 ft² total area), and Building X has 42 single-width and 24 double-width balconies (approximately 4,455 ft² total area). Given structural concerns as well as the potential to disturb tenants, no physical removal or chemical decontamination of the concrete balconies will be conducted. The PCBs present in this material will be encapsulated in place to achieve a barrier such that exposure to residual PCBs is eliminated at the surface.

Prior to application of the coatings, the concrete surfaces will be sampled to collect baseline bulk concrete data. Samples will be collected from representative locations to document the baseline (existing) PCB concentrations that remain beneath the encapsulant. Concrete samples will be collected in accordance with the USEPA Region I Draft Standard Operating Procedure for Sampling Concrete in the Field (December 1997). The proposed baseline sampling plan is summarized in the following table:

Building	Balconies Already Sampled	Additional Samples Proposed	Total Baseline Samples
В	1	3	4
С	1	3	4
Х	2	11	13
Totals:	4	17	21

Table 4-3: Balcony Concrete Baseline Sampling Summary

Similar to Building A, this sampling frequency translates to one baseline sample per selected balcony for every five balconies present. The specific locations will be randomly selected, using a random number generator to select the unit and the x-y coordinates. Duplicate samples and field equipment blanks will be collected at a frequency of 1 per 20 primary samples and submitted to the laboratory for QA/QC procedures associated with the sample collection.

After sampling, the surfaces will be patched at sample locations and prepared so that they are dry, clean, and free of significant cracks or pitting. The coatings will be applied directly to the concrete to create a containment barrier encapsulating the residual PCBs in the concrete. The topside of each balcony will be primed and then encapsulated with two coats of BASF Sonoguard, a colored polyurethane liquid coating system that will also serve as a weatherproofing coating. The underside of each balcony, containing only residual concentrations of PCBs at locations nearest the joint at the building face as shown by Building A data, will be coated with a separate breathable waterproof coating. The product technical specification for BASF Sonoguard is provided in the Building A Plan.



Baseline surface wipe samples will be collected from the encapsulated surfaces at the same locations as the baseline bulk concrete samples to evaluate the effectiveness of the encapsulation and establish a baseline for future monitoring. As described above, this will include sample collection from a total of 21 locations. Wipe samples will be collected using hexane-saturated gauze wipes in accordance with the standard wipe test method (40 CFR 761.123). Duplicate samples and field equipment blanks will be collected at a frequency of 1 per 20 primary samples and submitted to the laboratory as part of the QA/QC procedures associated with sample collection.

Analytical results from the wipe samples of the balcony coating will be evaluated to determine whether or not this task is complete as follows:

- Analytical results ≤ 1 µg/100 cm<sup>2</sup> task complete.
- Analytical results > 1 µg/100 cm<sup>2</sup> additional application of the coating is required and additional verification wipe samples to be collected at an off-set location.

The ground-level Building B patio results were consistent with Building A patio results (concrete pads contain PCBs < 1 ppm), and treatment of these surfaces will be conducted as described in Section 5.9 of the Building A Plan (concrete will be coated with the same acrylic coating used on the vertical surfaces of the building). Given that no PCBs were detected above 1 ppm, baseline samples will not be collected from the ground floor patio concrete.

#### 4.10 PAVED ADJACENT GROUND SURFACES

No samples were collected from paved ground surfaces adjacent to Buildings B, C, and X during this characterization event. As described in Section 5.10 of the Building A Plan, no remediation is required for these surfaces as all asphalt, brick, or concrete samples collected from the Building A perimeter were reported with PCBs < 1 ppm.

#### 4.11 ADJACENT SOILS

Additional soil characterization sampling and soil remediation plan preparation for unpaved adjacent ground surfaces surrounding Buildings B, C, and X will be conducted in a similar manner to Building A, as described in Section 5.11 of the Building A Plan.

#### 4.12 INTERIOR CAULKING

The average result for the interior bulk caulking samples from Buildings B, C, and X was consistent with Building A results, and remediation of the interior caulking is included in this remediation plan. In addition, interior surface wipe data collected from Buildings B, C, and X support the conclusion in the Building A risk evaluation (Appendix A of the Building A Plan), which found that the levels of PCBs detected are not likely to pose an unacceptable risk to tenants before remedial actions can be completed given the proposed remedy implementation schedule.

PCBs at levels > 1 ppm have been detected in interior caulking within Building B, C, and X residential units. The amount of caulking present in each unit ranges from 56 to 100 linear feet, depending on the size of the unit and its number of windows. The transport mechanism for PCBs to have come to be located in this interior caulking was identified during Building A investigations as the PCB-impacted building materials within the walls (i.e., inaccessible surfaces beneath the caulking such as concrete that was in former contact with original PCB-containing caulking).

In consideration of available remedial options, complete removal of the impacted building materials beneath the caulking and integral to the building walls is infeasible given that the materials are structural and/or inaccessible without complete renovation of the interior units. Removal of the caulking and liquid encapsulation of the underlying



integral building materials is also an infeasible option – the underlying media could not be effectively coated given their variability and/or inaccessibility. Because substrate encapsulation is infeasible, a straightforward removal and replacement with new caulking could potentially lead to cross-contamination of that new caulking.

Given the available options, the proposed interior caulking remediation plan includes a four-step process:

- All interior window/door caulking will be removed within a contained work area;
- Portions of the metal window and door frames in direct contact with the caulking will be cleaned, and postcleaning verification surface wipe samples will be collected at a frequency of one sample for every five residential units:
- New caulking will be installed in the joint; and
- A metal trim or a flexible strip will be installed over the new caulking to prevent future direct contact with newly installed caulking, as it has a potential for future cross-contamination from the underlying materials.

The level of PCBs present in the interior caulking does not pose an unacceptable risk to tenants as discussed in the Building A risk evaluation (Appendix A of the Building A Plan). As such, the timing of the interior caulking remediation does not require prioritization as an immediate action. However, based on recent discussions with Harvard, the remedial actions are likely to occur on a schedule independent of the façade work outside of each building, and will occur regardless of whether a unit is currently occupied or not. The goal is to complete all of the interior caulking remediation work in 2010.

#### 4.13 STORAGE AND DISPOSAL

Storage and disposal of PCB wastes will be conducted as described in Section 5.13 of the Building A Plan.

#### **4.14 SITE RESTORATION**

Site restoration will be conducted as described in Section 5.14 of the Building A Plan.

#### 4.15 RECORDKEEPING AND DOCUMENTATION

Recordkeeping and documentation will be conducted as described in Section 5.15 of the Building A Plan.

#### 4.16 CONCEPTUAL MONITORING AND MAINTENANCE PLAN

The conceptual monitoring and maintenance plan is described in Section 5.16 of the Building A Plan.



# 5. COMMUNICATIONS

Prior to initiation and periodically during the work activities, project-related communications with tenants and employees will be undertaken on an as-needed basis (i.e., notice of disruptive activities to particular areas) or as significant project milestones are achieved. Additional information on the communication plan is provided in the Communications section of the Building A Plan.



#### 6. SCHEDULE

Remediation activities will be initiated immediately upon approval of this plan. Given that the proposed remediation activities will be conducted in continuous occupancy residential buildings and will involve a significant amount of disruption, the remediation will occur in a phased approach. The remediation work will focus initially on Building A, thereby allowing Harvard to evaluate the remedial activities and make adjustments or refine the approach based on information acquired during the activities completed at Building A. It is anticipated that the building materials remediation activities will be completed first followed by the soil removal at each respective building.

The intent for the overall exterior façade project is to complete activities by groups of buildings. At this time, the projected schedule for completing the work is as follows:

2010: Building A, followed by Buildings B, C, and X

2011: Buildings E, F, and Y

2012: Buildings D and Z

In addition, the interior caulking removal / remediation work is also scheduled for completion in 2010. The interior work will be completed on a schedule independent of the exterior façade work.

Given this schedule, Harvard is prepared to commence work immediately upon EPA's review and approval of the Building A PCB Remediation Plan as well as this Addendum. For planning purposes and given the amount of exterior façade work that needs to be completed at each building, work activities are currently scheduled to commence in late April 2010.

# Table 2-1 Analytical Results Summary - Residential Unit Characterization Data Buildings B, C, X

Sample	Building	Unit	Sample		Bulk	Sample Res	ult			Wipe Sample	Result		
Media	ID	Number	Date	Sample Description	Sample ID	Reporting Limit	Aroclor 1254	Total PCBs	Sample ID	Preservative	Reporting Limit	Aroclor 1254	Total PCBs
Interior Caull	king												
		11-510	3/2/10	Living room balcony door joint -	PTB-CBK-11510-0451	11.6	195	195	PTB-CWK-11510-0455	Hexane	0.5	5.6	5.6
	_	11-510	3/2/10	white replacement caulking	F1B-CBK-11310-0431	11.6	195	100	PTB-CWK-11510-0454	Saline	0.5	ND	ND
Caulking	В	11-510	3/2/10	Kitchen window joint - white	PTB-CBK-11510-0452	12.7	171	171	PTB-CWK-11510-0453	Hexane	0.5	4.8	4.8
		11-510	3/2/10	replacement caulking	1 1 1 0 0 0 1 1 1 0 1 0 0 4 0 2		171		PTB-CWK-11510-0456	Saline	0.5	ND	ND
		13-32	3/2/10	Bedroom balcony door joint - white replacement caulking	PTC-CBK-1332-0441	5.45	79.3	79.3 79.3	PTC-CWK-1332-0435	Hexane	0.5	2.6	2.6
Caulking	С	13-32	3/2/10		1 10 0BK 1002 0111	0.10	70.0		PTC-CWK-1332-0437	Saline	0.5	ND	ND
Caulking		13-32	3/2/10	Kitchen window joint - white replacement caulking	PTC-CBK-1332-0444	1.75	24.3 J	24.2.1	PTC-CWK-1332-0443	Hexane	0.5	0.9 J	0.9 J
		13-32	3/2/10		PTC-CBK-1332-0444	1.75	24.3 J	24.3 J	PTC-CWK-1332-0442	Saline	0.5	ND	ND
		11-1103	3/1/10	Living room balcony door joint - white replacement caulking	PTX-CBK-111103-0406	2.34	38.3	38.3	PTX-CWK-111103-0409	Hexane	0.5	ND	ND
Caulking	X	11-1103	3/1/10						PTX-CWK-111103-0410	Saline	0.5	ND	ND
- Caag		11-1103	3/1/10	Kitchen window joint - white	PTX-CBK-111103-0407	14.7	218	218 J	PTX-CWK-111103-0411	Hexane	0.5	6.5	6.5
		11-1103	3/1/10	replacement caulking	PTA-CBK-111103-0407	14.7		210 J	PTX-CWK-111103-0412	Saline	0.5	1.9	1.9
		11-1302	3/2/10	Living room balcony door joint -	DTV 00V 111000 5	40.0	0.10	0.10	PTX-CWK-111302-0470	Hexane	0.5	4.7	4.7
Caulking	×	11-1302	3/2/10	white replacement caulking	PTX-CBK-111302-0467	16.2	310	310	PTX-CWK-111302-0469	Saline	3	13	13
Caulking	_ ^	11-1302	3/2/10	Kitchen window joint - white	PTX-CBK-111302-0468	28.9	525	525	PTX-CWK-111302-0472	Hexane	0.5	6.5	6.5
		11-1302	3/2/10	replacement caulking	17. 3BR 111002 0400	20.0	020	020	PTX-CWK-111302-0471	Saline	0.5	ND	ND

# Table 2-1 Analytical Results Summary - Residential Unit Characterization Data Buildings B, C, X

Sample	Building	Unit	Cample		Bulk	Sample Res	ult			Wipe Sample	Result		
Sample Media	ID	Number	Sample Date	Sample Description	Sample ID	Reporting Limit	Aroclor 1254	Total PCBs	Sample ID	Preservative	Reporting Limit	Aroclor 1254	Total PCBs
Interior Adjac	cent Surfac	es											
Metal		11-510	3/2/10	Living room balcony door frame				1	PTB-CWM-11510-0462	Hexane	0.5	13.9	13.9
Linoleum		11-510	3/2/10	Kitchen counter at windows	-				PTB-CWD-11510-0461	Hexane	0.5	ND	ND
Concrete	В	11-510	3/2/10	Living room wall near balcony					PTB-CWW-11510-0457	Hexane	0.5	2.0	2.0
Concrete		11-510	3/2/10	Kitchen wall near windows					PTB-CWW-11510-0458	Hexane	0.5	3.2	3.2
Tile		11-510	3/2/10	Living room floor near balcony					PTB-CWT-11510-0459	Hexane	0.5	ND	ND
Tile		11-510	3/2/10	Kitchen floor near windows					PTB-CWT-11510-0460	Hexane	0.5	2.7	2.7
Wood		13-32	3/2/10	Bedroom shelf near balcony					PTC-CWD-1332-0440	Hexane		-	6
Metal		13-32	3/2/10	Kitchen radiator near windows					PTC-CWM-1332-0447	Hexane	0.5	ND	ND
Concrete		13-32	3/2/10	Bedroom wall near balcony					PTC-CWW-1332-0439	Hexane	0.5	1.1	1.1
Concrete	С	13-32	3/2/10	Kitchen wall near windows					PTC-CWW-1332-0446	Hexane	0.5	ND	ND
Tile		13-32	3/2/10	Bedroom floor near balcony					PTC-CWT-1332-0438	Hexane	0.5	0.5	0.5
Tile		13-32	3/2/10	Kitchen floor near windows					PTC-CWT-1332-0445	Hexane	0.5	ND	ND
Metal		11-1103	3/1/10	Living room balcony door frame					PTX-CWM-111103-0415	Hexane	0.5	ND	ND
Metal		11-1103	3/1/10	Kitchen window frame					PTX-CWM-111103-0419	Hexane	0.5	ND	ND
Concrete		11-1103	3/1/10	Living room wall near balcony					PTX-CWW-111103-0414	Hexane	0.5	ND	ND
Concrete	X	11-1103	3/1/10	Kitchen wall near windows					PTX-CWW-111103-0417	Hexane	0.5	ND	ND
Tile		11-1103	3/1/10	Living room floor near balcony					PTX-CWT-111103-0413	Hexane	0.5	ND	ND
Tile		11-1103	3/1/10	Kitchen floor near windows					PTX-CWT-111103-0416	Hexane	0.5	ND	ND
Metal		11-1302	3/2/10	Living room balcony door frame					PTX-CWM-111302-0478	Hexane	0.5	ND	ND
Metal		11-1302	3/2/10	Kitchen radiator near windows					PTX-CWM-111302-0475	Hexane	0.5	ND	ND
Concrete	X	11-1302	3/2/10	Living room wall near balcony					PTX-CWW-111302-0476	Hexane	0.5	ND	ND
Concrete	^	11-1302	3/2/10	Kitchen wall near windows					PTX-CWW-111302-0473	Hexane	0.5	ND	ND
Tile		11-1302	3/2/10	Living room floor near balcony					PTX-CWT-111302-0477	Hexane	0.5	ND	ND
Tile		11-1302	3/2/10	Kitchen floor near windows					PTX-CWT-111302-0474	Hexane	0.5	ND	ND

# Table 2-1 Analytical Results Summary - Residential Unit Characterization Data Buildings B, C, X

Sample	Building	Unit	Sample		Bulk	Sample Res	ult			Wipe Sample	Result		
Media	ID	Number	Date	Sample Description	Sample ID	Reporting Limit	Aroclor 1254	Total PCBs	Sample ID	Preservative	Reporting Limit	Aroclor 1254	Total PCBs
Balconies													
Concrete	В	11-510	3/2/10	Concrete 0.7' from slab joint	PTB-CBC-11510-0449	0.33	1.51	1.51					
Concrete	В	11-510	3/2/10	Concrete 3.0' from slab joint	PTB-CBC-11510-0450	0.33	ND	ND					
Concrete	С	13-32	3/2/10	Concrete 2.0' from slab joint	PTC-CBC-1332-0432	0.33	ND	1.49					
Concrete	С	13-32	3/2/10	Concrete 2.8' from slab joint	PTC-CBC-1332-0433	0.33	ND	0.827					
Concrete	Х	11-1103	3/1/10	Concrete 1.8' from slab joint	PTX-CBC-111103-0401	0.33	ND	9.59					
Concrete	Х	11-1103	3/1/10	Concrete 1.0' from slab joint	PTX-CBC-111103-0402	0.33	ND	0.830					
Concrete	Х	11-1302	3/2/10	Concrete 3.0' from slab joint	PTX-CBC-111302-0465	0.33	ND	ND					
Concrete	Х	11-1302	3/2/10	Concrete 1.7' from slab joint	PTX-CBC-111302-0466	0.33	0.318	0.318					
Caulking	В	11-510	3/2/10	Slab joint - very stiff black caulking, somewhat cracked / deteriorated	PTB-CBK-11510-0448	10,405	112,000	112,000					
Caulking	С	13-32	3/2/10	Slab joint - original black caulking, some newer black repair caulking on top	PTC-CBK-1332-0429	121	2,990	2,990					
Caulking	х	11-1103	3/1/10	Slab joint - original black caulking beneath thin gray elastomeric surface coating	PTX-CBK-111103-0403	6,237	73,600	73,600					
Caulking	Х	11-1302	3/2/10	Slab joint - thicker flexible and sticky gray repair caulking over original black caulking	PTX-CBK-111302-0480	1,664	23,000	23,000					
Caulking	С	13-32	3/2/10	Balcony wall panel caulking	PTC-CBK-1332-0431	1,228	20,600	20,600					
Caulking	Х	11-1103	3/1/10	Balcony wall panel caulking	PTX-CBK-111103-0404	95	1,600	1,600					
Caulking	Х	11-1302	3/2/10	Balcony wall panel caulking	PTX-CBK-111302-0464	277	515	515					
Caulking	С	13-32	3/2/10	Balcony window - white caulking	PTC-CBK-1332-0430	1.55	25.9 J	25.9 J					
Caulking	Х	11-1103	3/1/10	Balcony window - white caulking	PTX-CBK-111103-0405	3.10	58.8	58.8					
Patios													
Concrete	В	14-12	3/1/10	Cround floor natio and	PTB-CBC-1412-0391	0.33	ND	ND					
Concrete	В	14-12	3/1/10	Ground floor patio pad	PTB-CBC-1412-0392	0.33	ND	ND					
Caulking	В	14-12	3/1/10	Patio joint caulking - flexible gray replacement caulking	PTB-CBK-1412-0393	5.51	50.8	50.8					

#### Notes:

- 1. All samples were extracted by USEPA Method 3540C (Soxhlet) and analyzed by USEPA Method 8082.
- 2. All bulk sample results are presented in milligrams per kilogram (mg/kg).
- 3. All wipe sample results are presented in micrograms per 100 square centimeters (ug/100cm<sup>2</sup>).
- 4. ND = Not detected above laboratory's minimum reporting limit, as indicated.
- 5. All PCB results were reported as Aroclor 1254, with the exception of four balcony concrete results reported as Aroclor 1260.
- 6. Due to a malfunction of the laboratory analytical equipment, this sample was not available for analysis.

# Table 2-2 Analytical Results Summary - Facade Characterization Data Buildings B, C, X

	Building		Sample			Lat	oratory Re	sult
Sample Media	ID	Façade	Date	Sample Description	Sample ID	Reporting Limit	Aroclor 1254	Total PCBs
Exterior Caulking								•
Panel caulking	В	North	3/2/10	Non-balcony wall; upper floor panel caulking. Only original black caulking was observed at this joint	PTB-CBK-1432-0427	8,712	176,000	176,000
Panel caulking	Х	East	3/1/10	Non-balcony wall; ground-level panel caulking from inner layer of original black caulking	PTX-CBK-1012-0386	518	10,200	10,200
Panel caulking	Х	East	3/1/10	Non-balcony wall; ground-level panel caulking from inner layer of original black caulking	PTX-CBK-1012-0387	243	3,550	3,550
Window caulking	В	North	3/2/10	Non-balcony wall; upper floor window caulking	PTB-CBK-1531-0428	1.22	16.7	16.7 J
Door caulking	С	East	3/1/10	Non-balcony wall; lobby entry door caulking	PTC-CBK-1212-0394	152	2,390	2,390
Window caulking	Х	East	3/1/10	Non-balcony wall; window caulking	PTX-CBK-1012-0388	3.14	70.4 J	70.4 J
Concrete Not in Dire	ct Contact	with Caulk	ing			•		
				Concrete 0-0.5 inches from vertical joint	PTB-CBC-1432-0424	6.5	172	172
				Concrete 1.5-2 inches from vertical joint	PTB-CBC-1432-0425	0.33	1.16	1.16
		NI	0/0//0	Concrete 6-6.5 inches from vertical joint	PTB-CBC-1432-0426	0.33	0.391	0.391
Concrete	В	North	3/2/10	Concrete 0-0.5 inches below horizontal joint	PTB-CBC-1432-0420	16.7	253	253
				Concrete 6-6.5 inches below horizontal joint	PTB-CBC-1432-0421	0.33	0.633	0.633
				Concrete 12-12.5 inches below horizontal joint	PTB-CBC-1432-0423	0.33	33 0.633 33 ND	ND
				Concrete 0-0.5 inches from vertical joint	PTC-CBC-1212-0397	3.33	83.9	83.9
				Concrete 1.5-2 inches from vertical joint	PTC-CBC-1212-0398	0.33	ND	ND
Concrete	С	West	3/1/10	Concrete 6-6.5 inches from vertical joint	PTC-CBC-1212-0399	0.33	ND	ND
				Concrete 0-0.5 inches below horizontal joint	PTC-CBC-1212-0395	6.7	108	108
				Concrete 6-6.5 inches below horizontal joint	PTX-CBK-1012-0386   S18   10,200   10	ND		
				Concrete 0-0.5 inches from vertical joint	PTX-CBC-1012-0379	6.3	135	135
				Concrete 1.5-2 inches from vertical joint	PTX-CBC-1012-0380	0.33	ND	ND
Concrete	×	East	3/1/10	Concrete 6-6.5 inches from vertical joint	PTX-CBC-1012-0381	0.33	ND	ND
Concrete	^	Easi	3/1/10	Concrete 0-0.5 inches below horizontal joint	PTX-CBC-1012-0382	33.4	467	467
				Concrete 6-6.5 inches below horizontal joint	PTX-CBC-1012-0383	0.33	ND	ND
				Concrete 12-12.5 inches below horizontal joint	PTX-CBC-1012-0384	0.66	9.81	9.81
Concrete	Х	North	3/1/10	Elevator shaft panel concrete, ground-level; 1.5-2" from caulking joint (east of elevator shaft)	PTX-CBC-11104-0389	0.33	0.663	0.663
Concrete	Х	North	3/1/10	Ground-level concrete wall sample; no nearby caulking (elevator shaft area)	PTX-CBC-11104-0390	0.30	0.30 ND	
Concrete	Х	South	3/1/10	Ground-level concrete wall sample; no nearby caulking	PTX-CBC-1011-0378	0.33	ND	ND

#### Notes:

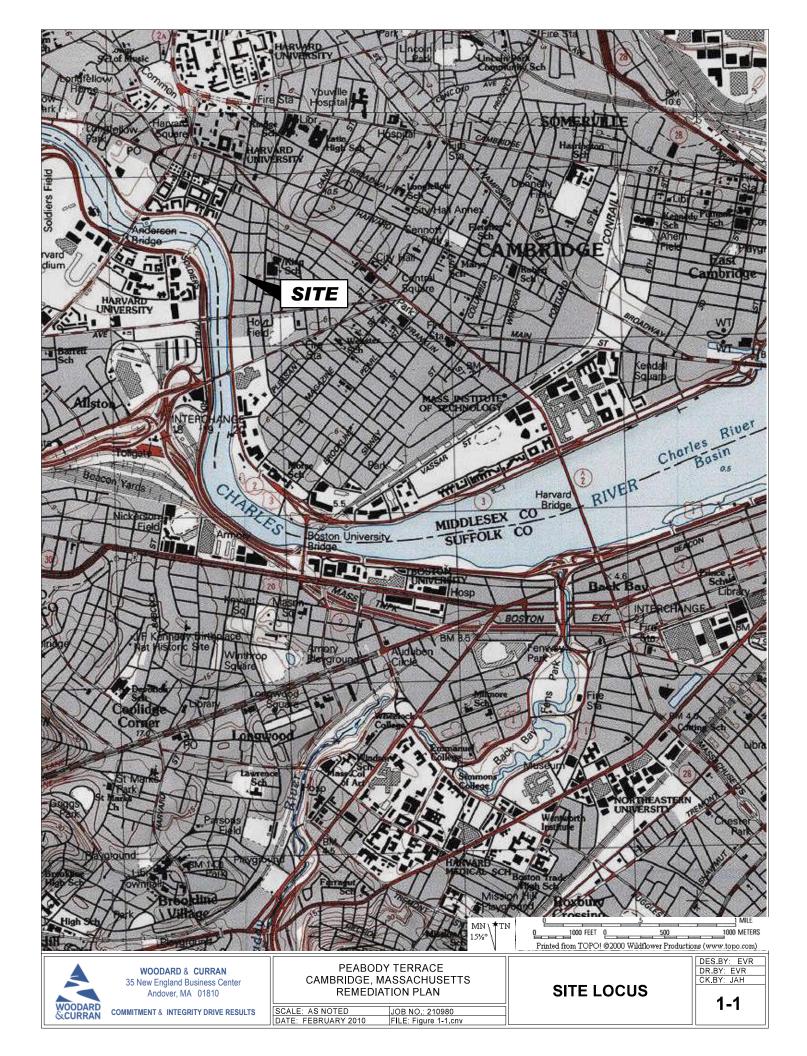
- 1. All samples were extracted by USEPA Method 3540C (Soxhlet) and analyzed by USEPA Method 8082.
- 2. All sample results are presented in milligrams per kilogram (mg/kg).
- 3. ND = Not detected above laboratory's minimum reporting limit, as indicated.

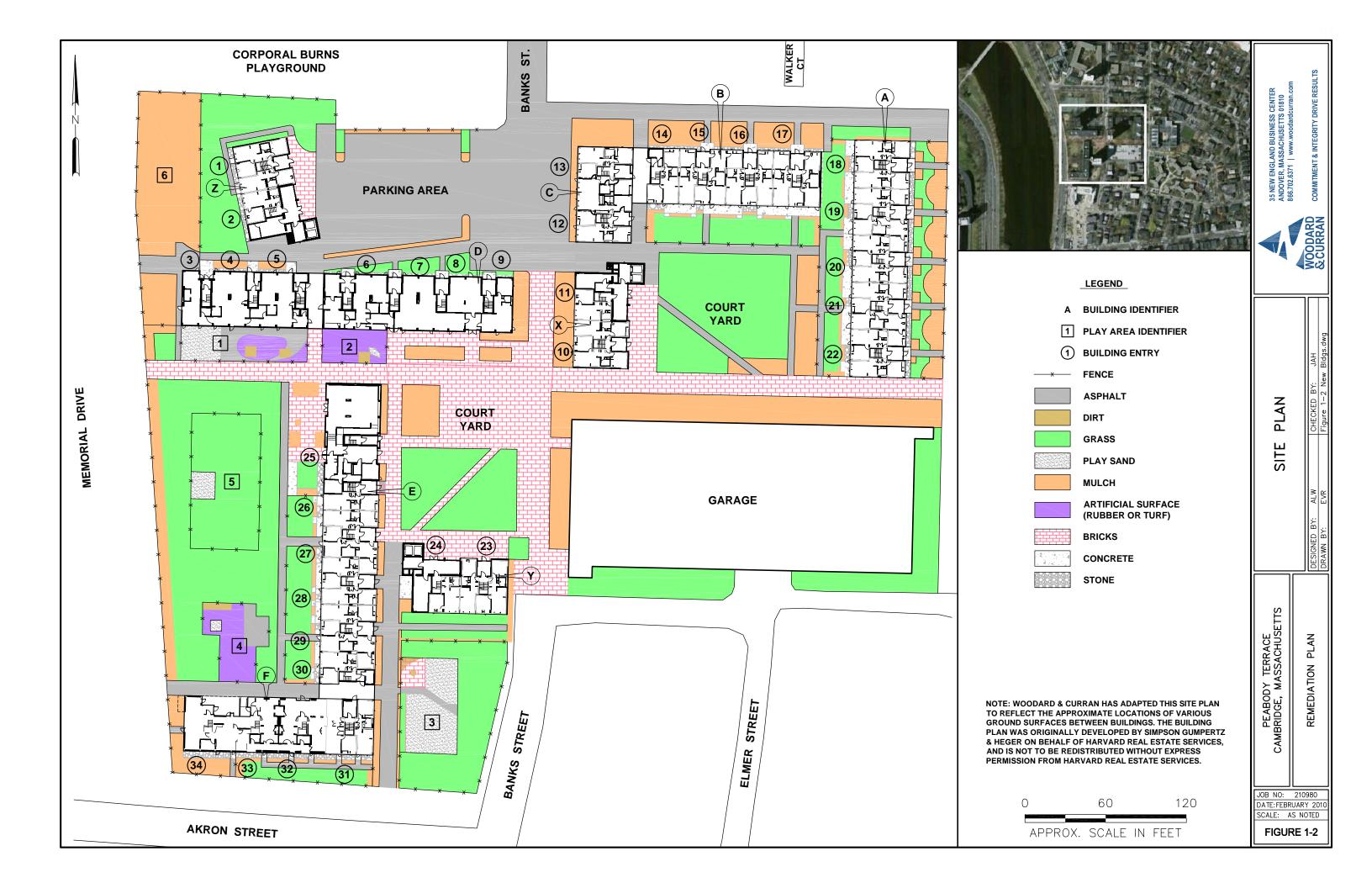
Table 2-3
Building B, C, X - Indoor Air Characterization Data
Peabody Terrace Remediation Plan

Bulk Caulking Sample Result (mg/kg)	Air Sample ID	Sample Description	Sample Date	PCB Concentration (ng/cartridge)	Flow Rate (L/Minute)	Duration (minutes)	Corrected Sample Volume (m³)	PCB Concentration (ng/m³)
Residential Unit	Indoor Air							
195	PTB-CAR-11510-0481	Building B Unit 11-510 Living Room	3/25/2010	14.3	2.53	120	0.302	47.3
171	PTB-CAR-11510-0482	Building B Unit 11-510 Kitchen	3/25/2010	18.1	2.52	120	0.301	60.2
38.3	PTX-CAR-111103-0483	Building X Unit 11- 1103 Living Room	3/25/2010	< 5.0	2.50	120	0.298	< 16.8
218 J	PTX-CAR-111103-0484	Building X Unit 11- 1103 Kitchen	3/25/2010	< 5.0	2.50	120	0.298	< 16.8
310	PTX-CAR-111302-0485	Building X Unit 11- 1302 Living Room	3/25/2010	< 5.0	2.51	120	0.300	< 16.8
525	PTX-CAR-111302-0486	Building X Unit 11- 1302 Kitchen	3/25/2010	< 5.0	2.50	120	0.298	< 16.8
24.3 J	PTC-CAR-1332-0487	Building C Unit 13-32 Kitchen	3/25/2010	15.2	2.50	120	0.298	50.9
79.3	PTC-CAR-1332-0488	Building C Unit 13-32 Bedroom	3/25/2010	7.4	2.51	120	0.300	24.7
Outdoor Air (Bad	ckground)							
N/A	PTB-CAR-S-0489	Courtyard 74' West of Bldg A 69' South of Bldg B	3/25/2010	< 5.0	2.49	120	0.306	< 16.8

#### Notes:

- 1. Air samples collected in accordance with USEPA Compendium Method TO-10A and submitted for laboratory analysis of PCBs homologs.
- 2. The flow rate displayed is the average flow rate as measured at the beginning and end of the sampling period.
- 3. Sample volume is corrected to standard temperature and pressure in accordance with Section 13.1.7 of Method TO-10A.
- 4. Average weather conditions during the sampling period were 16.0°C and 758 mmHg (outdoor), and 23.3°C and 756 mmHg (indoor).
- 5. Total PCB concentration is the total PCB homologs reported by the lab (ng/cartridge) per sample volume (m³/cartridge).
- 6. "<" indicates that samples were reported below the laboratory's minimum detection limit.







# **APPENDIX A: PHOTOGRAPHS**

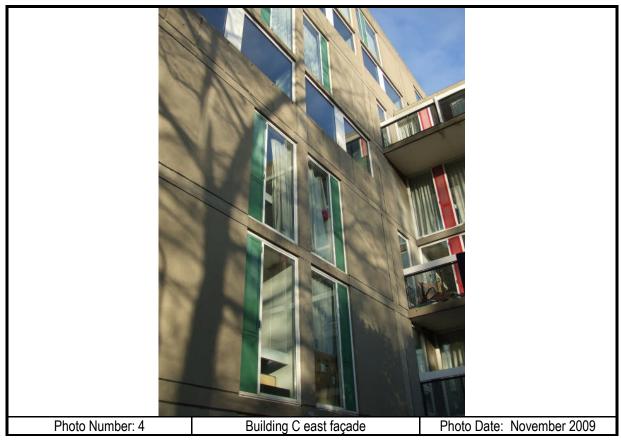






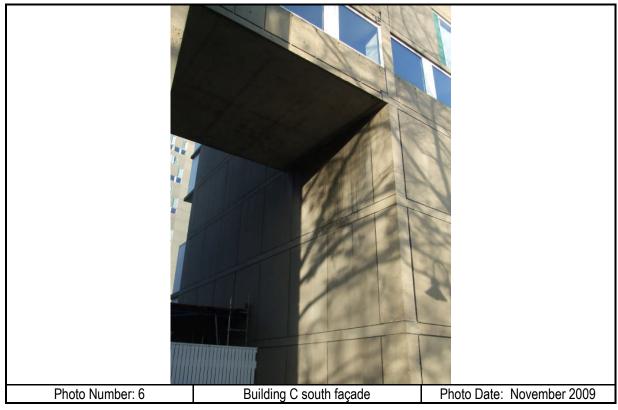




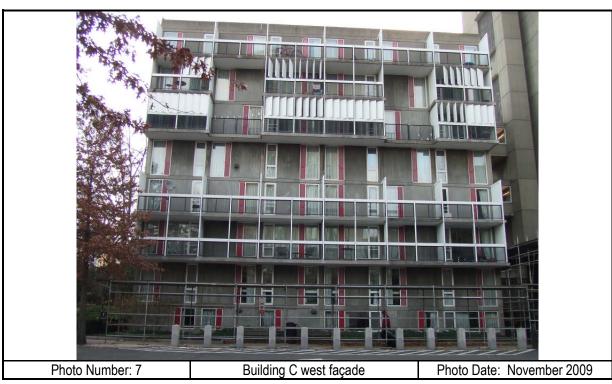


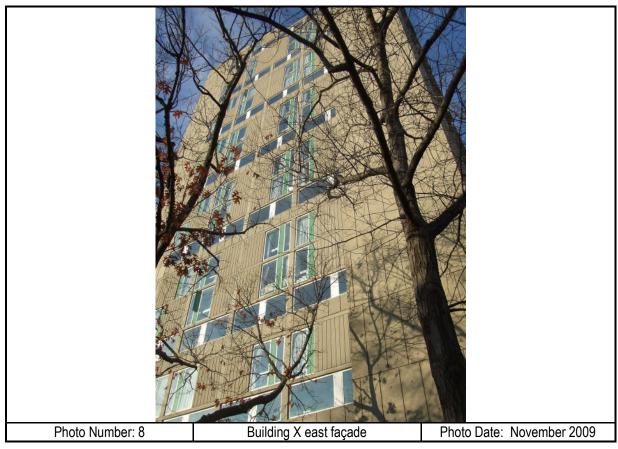




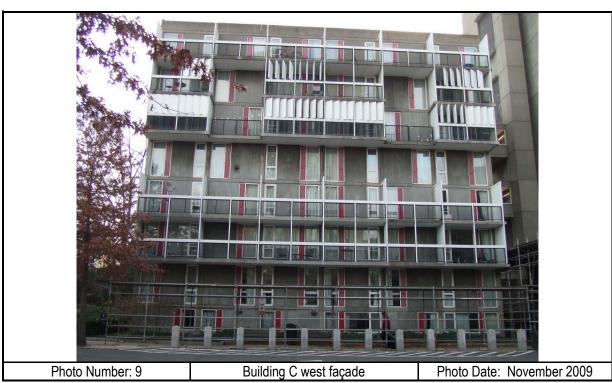








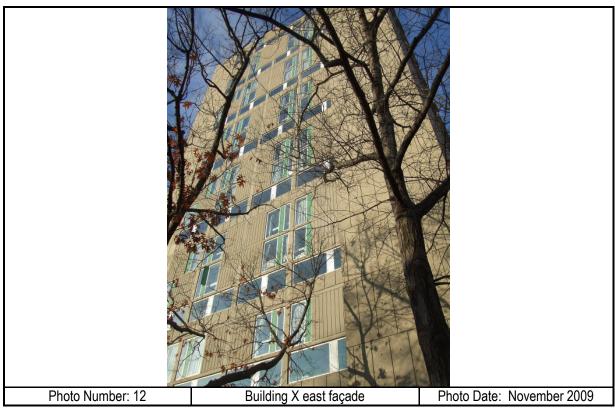














# APPENDIX B: LABORATORY ANALYTICAL REPORTS



March 22, 2010

Ms. Amy Wallace Woodard & Curran 35 NE Business Center Suite 180 Andover MA 01810

RE: Analytical Results Case Narrative

Analytics # 65968

Peabody Terrace Proj.# 210980

Dear Ms. Wallace;

Enclosed please find the analytical results for samples submitted for the above-mentioned project. The attached Cover Page lists the sample IDs, Lab tracking numbers and collection dates for the samples included in this deliverable.

Samples were analyzed for Polychlorinated Biphenyls (PCBs) by EPA Method 8082.

Unless otherwise noted in the Non-conformance Summary listed below, all of the quality control (QC) criteria including initial calibration, calibration verification, surrogate recovery, holding time and method accuracy/precision for these analyses were within acceptable limits.

This Level II data package has been assembled in the following order:

Case Narrative/Non-Conformance Summary
Sample Log Sheet - Cover Page
PCB Form 1 Data Sheet for Samples and Blanks
Chromatograms
PCB Form 10 Confirmation Results
PCB Form 3 MS/MSD (LCS) Recoveries
Chain of Custody (COC) Forms

#### QC NON-CONFORMANCE SUMMARY

### Sample Receipt:

No exceptions.

#### PCBs by EPA Method 8082:

No results were reported below the quantitation limit.

All the bulk samples were brought to a 50 mL final volume due to sample matrix. Samples 65968-2, 65968-5, 65968-7, 65968-8, 65968-9, 65968-10, 65968-11, 65968-16, 65968-17, 65968-18, 65968-20, 65968-26, 65968-27, 65968-28, 65968-29 and 65968-30 required dilution due to high concentrations of PCBs detected in the samples.

Samples 65968-11 and 65968-30 had % difference between the two columns>40%. Results were flagged with a "P" and reported with a comment to this affect.

The laboratory control sample duplicate (LD030810PWB) had low recovery surrogate Decachlorobiphenyl (DCB) and PCB 1016 on both columns. Surrogate Tetrachloro-m-xylene (TCX) and PCB 1260 recoveries were in control on both columns. In addition sample 65968-23 had low DCB recovery on column #2. Results were reported off of column #1 without qualification.

Samples 65968-28 and 65968-29 had high recovery for DCB on column #1 due to matrix interference. Column #2 was in control. Results were reported off column #2 without qualification. Sample 65968-11 had low recovery for both surrogates on column#2. Column #1 was in control. Results were reported off of column #1 without qualification.

Two samples were selected for use for MS/MSDs (65968-9 and 65968-27) and could not be evaluated as concentrations of PCB 1254 in the parent samples were so high. The laboratory control samples were used to assess accuracy and precision for the batches.

The laboratory blank extracted 03/03/10 (B030310PSOX) had PCB 1254 detected at 763 ug/kg. All samples that had PCBs detected at <10X the level detected in the blank were re-extracted. Samples with results >10 the level detected in the laboratory blank were reported without qualification. Samples 65968-9,65968-10, 65968-11, 65968-16, 65968-26 and 65968-27 were samples extracted with the blank that had sample results >10X the level detected in the blank. The laboratory control sample (L030310PSOX2) had high recoveries for PCB 1260 on both columns. The laboratory control sample duplicate (LD030310PSOX2) was in control for all analytes on column#2. The batch MS/MSD analyzed on sample 65936-1 was in control for PCB 1260 on both columns. PCB 1016 had high recovery on column#2 for the MS. Results were reported without qualification.

The continuing calibration standard (file# M22789SC) had low recovery for Decachlorobiphenyl (DCB) on column#2. Column#1 was in control for all analytes. Results were reported without qualification.

If you have any questions on these results, please do not hesitate to contact me.

Sincerely.

ANALYTICS Environmental Laboratory, LLC

Laboratory Director



Ms. Amy Wallace Woodard & Curran 35 NE Business Center Suite 180 Andover MA 01810 Report Number: 65968

Revision: Rev. 0

Re: Peabody Terrace

210980

Enclosed are the results of the analyses on your sample(s). Samples were received on 02 March 2010 and analyzed for the tests listed below. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. These results pertain to samples as received by the laboratory and for the analytical tests requested on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

Sample Date	Station Location	<u>Analysis</u>	Comments
03/01/10	PTX-CBC-1011-0378	EPA 8082 (PCBs only)	
03/01/10	PTX-CBC-1012-0379	EPA 8082 (PCBs only)	
03/01/10	PTX-CBC-1012-0380	EPA 8082 (PCBs only)	
03/01/10	PTX-CBC-1012-0381	EPA 8082 (PCBs only)	
03/01/10	PTX-CBC-1012-0382	EPA 8082 (PCBs only)	
03/01/10	PTX-CBC-1012-0383	EPA 8082 (PCBs only)	
03/01/10	PTX-CBC-1012-0384	EPA 8082 (PCBs only)	
03/01/10	PTX-CBCD-1012-0385	EPA 8082 (PCBs only)	
03/01/10	PTX-CBK-1012-0386	EPA 8082 (PCBs only)	
03/01/10	PTX-CBK-1012-0387	EPA 8082 (PCBs only)	
03/01/10	PTX-CBK-1012-0388	EPA 8082 (PCBs only)	
	03/01/10 03/01/10 03/01/10 03/01/10 03/01/10 03/01/10 03/01/10 03/01/10 03/01/10	03/01/10         PTX-CBC-1011-0378           03/01/10         PTX-CBC-1012-0379           03/01/10         PTX-CBC-1012-0380           03/01/10         PTX-CBC-1012-0381           03/01/10         PTX-CBC-1012-0382           03/01/10         PTX-CBC-1012-0383           03/01/10         PTX-CBC-1012-0384           03/01/10         PTX-CBCD-1012-0385           03/01/10         PTX-CBK-1012-0386           03/01/10         PTX-CBK-1012-0387	03/01/10         PTX-CBC-1011-0378         EPA 8082 (PCBs only)           03/01/10         PTX-CBC-1012-0379         EPA 8082 (PCBs only)           03/01/10         PTX-CBC-1012-0380         EPA 8082 (PCBs only)           03/01/10         PTX-CBC-1012-0381         EPA 8082 (PCBs only)           03/01/10         PTX-CBC-1012-0382         EPA 8082 (PCBs only)           03/01/10         PTX-CBC-1012-0383         EPA 8082 (PCBs only)           03/01/10         PTX-CBC-1012-0384         EPA 8082 (PCBs only)           03/01/10         PTX-CBCD-1012-0385         EPA 8082 (PCBs only)           03/01/10         PTX-CBK-1012-0386         EPA 8082 (PCBs only)           03/01/10         PTX-CBK-1012-0387         EPA 8082 (PCBs only)

Sample Receipt Exceptions: None

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, New York, Virginia, Maryland, and is validated by the U.S. Navy (NFESC). A list of actual certified parameters is available upon request.

If you have any further question on the analytical methods or these results, do not hesitate to call.

Authorized signature

Stephen L. Knollmeyer Lab. Director

Date



Ms. Amy Wallace Woodard & Curran 35 NE Business Center Suite 180 Andover MA 01810 Report Number: 65968

Revision: Rev. 0

Re: Peabody Terrace

210980

Enclosed are the results of the analyses on your sample(s). Samples were received on 02 March 2010 and analyzed for the tests listed below. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. These results pertain to samples as received by the laboratory and for the analytical tests requested on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

Sample Date	Station Location	<u>Analysis</u>	Comments
03/01/10	PTX-CBC-11104-0389	EPA 8082 (PCBs only)	
03/01/10	PTX-CBC-11104-0390	EPA 8082 (PCBs only)	
03/01/10	PTB-CBC-1412-0391	EPA 8082 (PCBs only)	
03/01/10	PTB-CBC-1412-0392	EPA 8082 (PCBs only)	
03/01/10	PTB-CBK-1412-0393	EPA 8082 (PCBs only)	
03/01/10	PTC-CBK-1212-0394	EPA 8082 (PCBs only)	
03/01/10	PTC-CBC-1212-0395	EPA 8082 (PCBs only)	
03/01/10	PTC-CBC-1212-0396	EPA 8082 (PCBs only)	
03/01/10	PTC-CBC-1212-0397	EPA 8082 (PCBs only)	
03/01/10	PTC-CBC-1212-0398	EPA 8082 (PCBs only)	
03/01/10	PTC-CBC-1212-0399	EPA 8082 (PCBs only)	
	03/01/10 03/01/10 03/01/10 03/01/10 03/01/10 03/01/10 03/01/10 03/01/10 03/01/10	03/01/10         PTX-CBC-11104-0389           03/01/10         PTX-CBC-11104-0390           03/01/10         PTB-CBC-1412-0391           03/01/10         PTB-CBC-1412-0392           03/01/10         PTB-CBK-1412-0393           03/01/10         PTC-CBK-1212-0394           03/01/10         PTC-CBC-1212-0395           03/01/10         PTC-CBC-1212-0396           03/01/10         PTC-CBC-1212-0397           03/01/10         PTC-CBC-1212-0398	03/01/10         PTX-CBC-11104-0389         EPA 8082 (PCBs only)           03/01/10         PTX-CBC-11104-0390         EPA 8082 (PCBs only)           03/01/10         PTB-CBC-1412-0391         EPA 8082 (PCBs only)           03/01/10         PTB-CBC-1412-0392         EPA 8082 (PCBs only)           03/01/10         PTB-CBK-1412-0393         EPA 8082 (PCBs only)           03/01/10         PTC-CBK-1212-0394         EPA 8082 (PCBs only)           03/01/10         PTC-CBC-1212-0395         EPA 8082 (PCBs only)           03/01/10         PTC-CBC-1212-0396         EPA 8082 (PCBs only)           03/01/10         PTC-CBC-1212-0397         EPA 8082 (PCBs only)           03/01/10         PTC-CBC-1212-0398         EPA 8082 (PCBs only)

Sample Receipt Exceptions: None

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Authorized signature

Stephen L. Knollmeyer Lab. Director

Date



Ms. Amy Wallace Woodard & Curran 35 NE Business Center Suite 180 Andover MA 01810 Report Number: 65968

Revision: Rev. 0

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Lab Number	Sample Date	Station Location	<u>Analysis</u>	Comments
65968-23	03/01/10	PTX-CBCQ-1012-0400	EPA 8082 (PCBs only)	
65968-24	03/01/10	PTX-CBC-111103-0401	EPA 8082 (PCBs only)	
65968-25	03/01/10	PTX-CBC-111103-0402	EPA 8082 (PCBs only)	
65968-26	03/01/10	PTX-CBK-111103-0403	EPA 8082 (PCBs only)	
65968-27	03/01/10	PTX-CBK-111103-0404	EPA 8082 (PCBs only)	
65968-28	03/01/10	PTX-CBK-111103-0405	EPA 8082 (PCBs only)	
65968-29	03/01/10	PTX-CBK-111103-0406	EPA 8082 (PCBs only)	
65968-30	03/01/10	PTX-CBK-111103-0407	EPA 8082 (PCBs only)	
65968-31	03/01/10	PTX-CWKQ-111103-0408	EPA 8082 (PCBs only)	
65968-32	03/01/10	PTX-CWK-111103-0409	EPA 8082 (PCBs only)	
65968-33	03/01/10	PTX-CWK-111103-0410	EPA 8082 (PCBs only)	

Sample Receipt Exceptions: None

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Date



Ms. Amy Wallace Woodard & Curran 35 NE Business Center Suite 180 Andover MA 01810

Report Number: 65968

Revision: Rev. 0

Re: Peabody Terrace

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Lab Number	Sample Date	Station Location	<u>Analysis</u>	Comments
65968-34	03/01/10	PTX-CWK-111103-0411	EPA 8082 (PCBs only)	
65968-35	03/01/10	PTX-CWK-111103-0412	EPA 8082 (PCBs only)	
65968-36	03/01/10	PTX-CWT-111103-0413	EPA 8082 (PCBs only)	
65968-37	03/01/10	PTX-CWW-111103-0414	EPA 8082 (PCBs only)	
65968-38	03/01/10	PTX-CWM-111103-0415	EPA 8082 (PCBs only)	
65968-39	03/01/10	PTX-CWT-111103-0416	EPA 8082 (PCBs only)	
65968-40	03/01/10	PTX-CWW-111103-0417	EPA 8082 (PCBs only)	
65968-41	03/01/10	PTX-CWWD-111103-0418	EPA 8082 (PCBs only)	
65968-42	03/01/10	PTX-CWM-111103-0419	Electronic Data Deliverable	
	03/01/10	PTX-CWM-111103-0419	EPA 8082 (PCBs only)	

Sample Receipt Exceptions: None

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Stephen L. Knollmeyer Lab. Director

Date

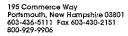


### Surrogate Compound Limits

•	Matrix: Units:	Aqueous % Recovery	Solid % Recovery	y Method
Volatile Organic Compounds - Di	rinking Wa	ter	•	
1,4-Difluorobenzene	J	70-130		EPA 524.2
Bromofluorobenzene		70-130		D171 327.2
1,2-Dichlorobenzene-d4		70-130		
Volatile Organic Compounds				
1,2-Dichloroethane-d4		70-120	70-120	EPA 624/8260B
Toluene-d8		85-120	85-120	E11102470200D
Bromofluorobenzene		75-120	75-120	· · · · · · · · · · · · · · · · · · ·
Semi-Volatile Organic Compounds	S			
2-Fluorophenol		20-110	35-105	EPA 625/8270C
d5-Phenol		15-110	40-100	D111025/02/00
d5-nitrobenzene		40-110	35-100	,
2-Fluorobiphenyl		50-110	45-105	•
2,4,6-Tribromophenol		40-110	40-125	•
d14-p-terphenyl		50-130	30-125	;
PAH's by SIM				,
d5-nitrobenzene		21-110	35-110	EPA 8270C
2-Fluorobiphenyl		36-121	45-105	
d14-p-terphenyl		33-141	30-125	,
Pesticides and PCBs			,	
2,4,5,6-Tetrachloro-m-xylene (TCX)		46-122	40-130	EPA 608/8082
Decachlorobiphenyl (DCB)		40-135	40-130	
Herbicides	•		•	
Dichloroacetic acid (DCAA0		30-150	30-150	
Gasoline Range Organics/TPH Gaso	line			
Trifluorotoluene TFT (FID)		60-140.	60-140	MEDEP 4217/EPA 8015
Bromofluorobenzene (BFB) (FID)		60-140	60-140	· ·
Trifluorotoluene TFT (PID)		60-140	60-140	
Bromofluorobenzene (BFB) (PID)	Î	60-140	60-140	
Diesel Range Organics/TPH Diesel				
m-terphenyl		60-140	60-140	MEDEP 4125/EPA 8015/CT ETPH



## PCB DATA SUMMARIES





**CLIENT SAMPLE ID** 

Project Name:

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

Lab QC

March 9, 2010

#### SAMPLE DATA

Lab Sample ID:

B030210PSOX

Matrix:

Wipe

Percent Solid:

N/A

Dilution Factor:

1.0

Collection Date:

Lab Receipt Date: **Extraction Date:** 

03/02/10

**Analysis Date:** 

03/04/10

PCB ANALYTICAL RESULTS			
COMPOUND	Quantitation Limit ug/wipe	Results ug/wipe	
PCB-1016	0.5	U	
PCB-1221	0.5	U	
PCB-1232	. 0.5	U	
PCB-1242	0.5	U	
PCB-1248	0.5	U	
PCB-1254	0.5	U	
PCB-1260	0.5	U	
	Surrogate Standard Recovery		
2	2,4,5,6-Tetrachloro-m-xylene 91 Decachlorobiphenyl 74		
U=Undetected J=Estin	nated E=Exceeds Calibration Range	B=Detected in	

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

COMMENTS:

PCBWipe

DCLData Path : C:\msdchem\1\DATA\030410-M\

Data File : M22683.D

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On 4 Mar 2010 9:00 am

Operator : RM

: B030210PSOX,,A/C Sample

SOIL Misc

ALS Vial : 59 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 04 11:08:05 2010

Quant Method: C:\msdchem\1\METHODS\PCB020410.M

Quant Title : Aroclor 1016/1260

QLast Update : Thu Feb 04 11:18:55 2010

Response via : Initial Calibration

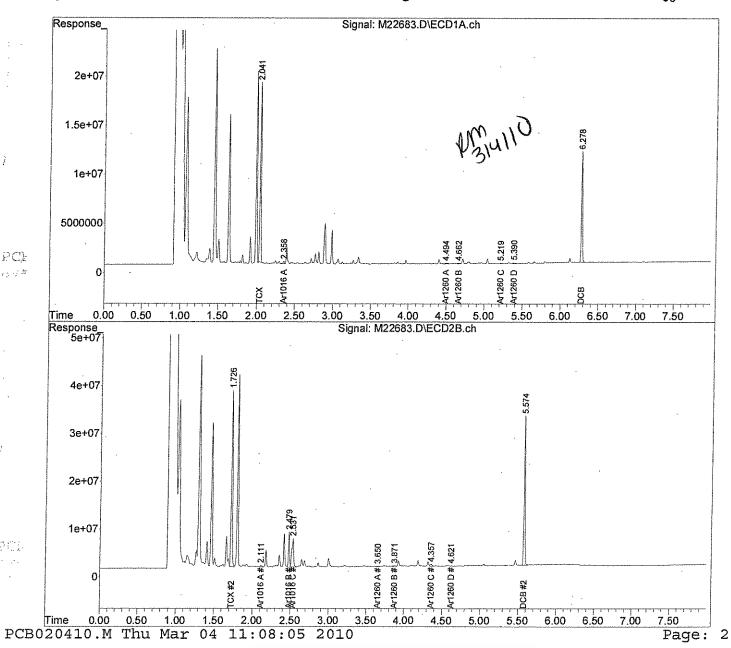
Integrator: ChemStation

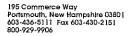
Volume Inj.

Signal #1 Phase : Signal #1 Info

Signal #2 Phase:

Signal #2 Info:







#### **CLIENT SAMPLE ID**

Project Name:

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

Lab QC

March 9, 2010 SAMPLE DATA

Lab Sample ID:

B030210PSOX

Matrix:

Wipe

Percent Solid:

N/A

**Dilution Factor:** 

1.0

**Collection Date:** 

Lab Receipt Date: **Extraction Date:** 

03/02/10

**Analysis Date:** 

03/04/10

PCB ANALYTICAL RESULTS			
COMPOUND	Quantitation Limit ug/wipe	Results ug/wipe	
PCB-1016	0.5	U	
PCB-1221	0.5	U	
PCB-1232	0.5	U	
PCB-1242	0.5	U	
PCB-1248	0.5	U	
PCB-1254	0.5	U	
PCB-1260	0.5	U	
	Surrogate Standard Recovery		
	2,4,5,6-Tetrachloro-m-xylene 94 Decachlorobiphenyl 78	%	
U=Undetected	J=Estimated E=Exceeds Calibration Range	B=Detected in	

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

COMMENTS:

PCBWipe

Data Path : C:\msdchem\1\DATA\030410-M\

Data File: M22697B.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 4 Mar 2010 11:26 am

Operator : RM

Sample : B030210PSOX,,A/C

Misc : SOIL

ALS Vial: 73 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 04 14:22:47 2010

Quant Method : C:\msdchem\1\METHODS\PCB020410.M

Quant Title : Aroclor 1016/1260

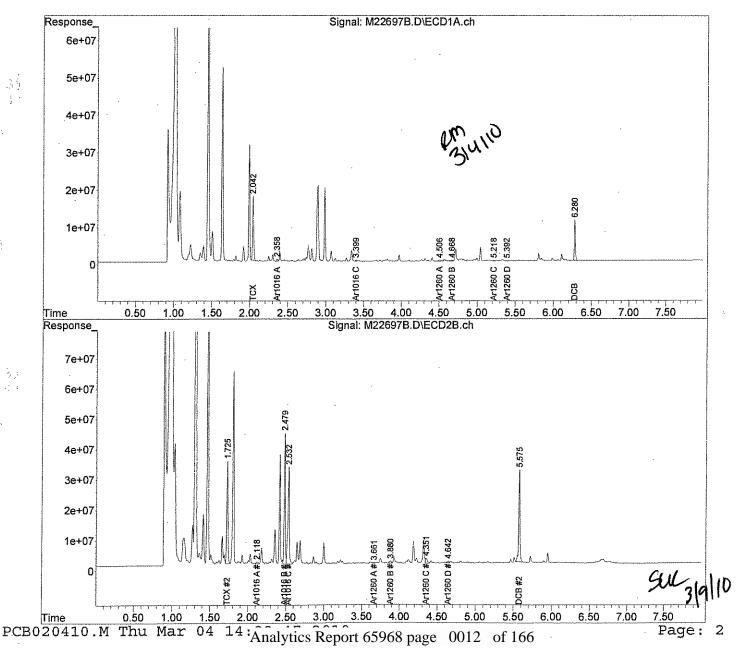
QLast Update : Thu Feb 04 11:18:55 2010

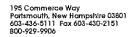
Response via: Initial Calibration

Integrator: ChemStation

Volume Inj. :

Signal #1 Phase : Signal #2 Phase: Signal #1 Info : Signal #2 Info :







CLIENT SAMPLE ID

**Project Name:** 

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

Lab QC

March 9, 2010 SAMPLE DATA

Lab Sample ID:

B030310PSOX

Matrix:

Soil

Percent Solid:

Dilution Factor:

N/A 1.0

**Collection Date:** 

Lab Receipt Date:

**Extraction Date:** 

03/03/10

Analysis Date:

03/04/10

	PCB ANALYTICAL RESU	LTS
COMPOUNI	Quantitation Limit $\mu$ g/kg	Results  µg/kg
PCB-1016	33	Ü
PCB-1221	33	Ũ
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	. U .
PCB-1254	33	763
PCB-1260	33	, U
	Surrogate Standard Recovery	
	2,4,5,6-Tetrachloro-m-xylene 90 Decachlorobiphenyl 66	% %
U=Undetec	ted J=Estimated E=Exceeds Calibration Range	e B=Detected in

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

Results are expressed on a dry weight basis.

PCB Report

#### (Not Reviewed) Quantitation Report

Data Path : C:\msdchem\1\DATA\030410-M\

Data File : M22712B.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

4 Mar 2010 Acq On 3:53 pm

Operator : RM

Sample : B030310PSOX Misc : SOIL, 50ML FV

ALS Vial : 85 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 05 09:54:21 2010

Quant Method: C:\msdchem\1\METHODS\54SP020410.M

Quant Title

QLast Update : Fri Feb 05 08:08:17 2010

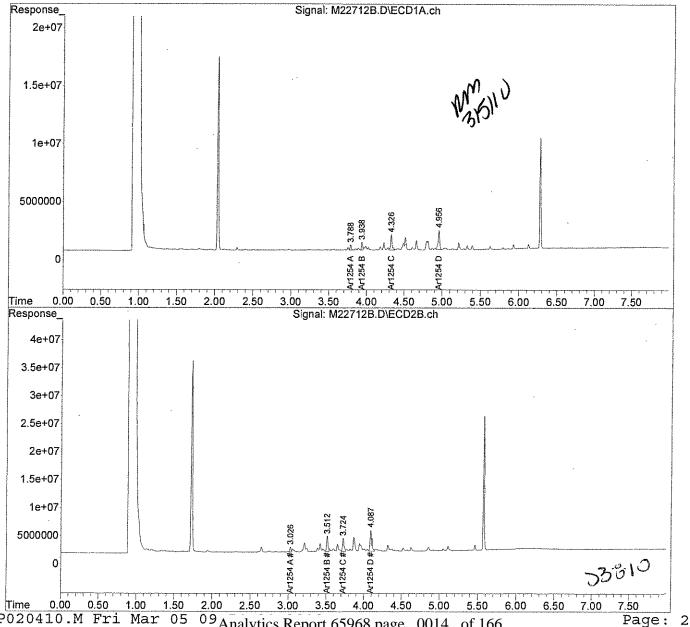
Response via: Initial Calibration

Integrator: ChemStation

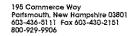
Volume Inj.

Signal #1 Phase : Signal #1 Info

Signal #2 Phase: Signal #2 Info:



54SP020410.M Fri Mar 05 09Analytics Report 65968 page 0014 of 166





CLIENT SAMPLE ID

**Project Name:** 

Peabody Terrace

Project Number:

210980

Field Sample ID:

Lab QC

March 10, 2010

SAMPLE DATA

Lab Sample ID:

B020810PAS RR 2-

Matrix:

Soil

Percent Solid:

N/A 1.0

**Dilution Factor:** 

**Collection Date:** Lab Receipt Date:

**Extraction Date:** 

02/08/10

Analysis Date:

03/05/10

PCB ANALYTICAL RESULTS				
COMPOUND	Quantitation Limit $\mu$ g/kg	Results μg/kg		
PCB-1016	33	U		
PCB-1221	33	U		
PCB-1232	33	, <b>U</b>		
PCB-1242	33	U		
PCB-1248	33	U		
PCB-1254	33	U		
PCB-1260	33	U		
	Surrogate Standard Recovery			
` .	2,4,5,6-Tetrachloro-m-xylene 87 Decachlorobiphenyl 69	% %		
U=Undetected	J=Estimated E=Exceeds Calibration Range	B≒Detected in		

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

Results are expressed on a dry weight basis.

PCB Report

Data Path : C:\msdchem\1\DATA\030510-M\

Data File: M22790B.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On 5 Mar 2010 5:27 pm

Operator : RM

Sample : B020810PAS,RR2,,A/C

Misc : SOIL

ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 08 13:18:35 2010

Quant Method : C:\msdchem\1\METHODS\PCB020410.M

Quant Title : Aroclor 1016/1260

QLast Update : Thu Feb 04 11:18:55 2010

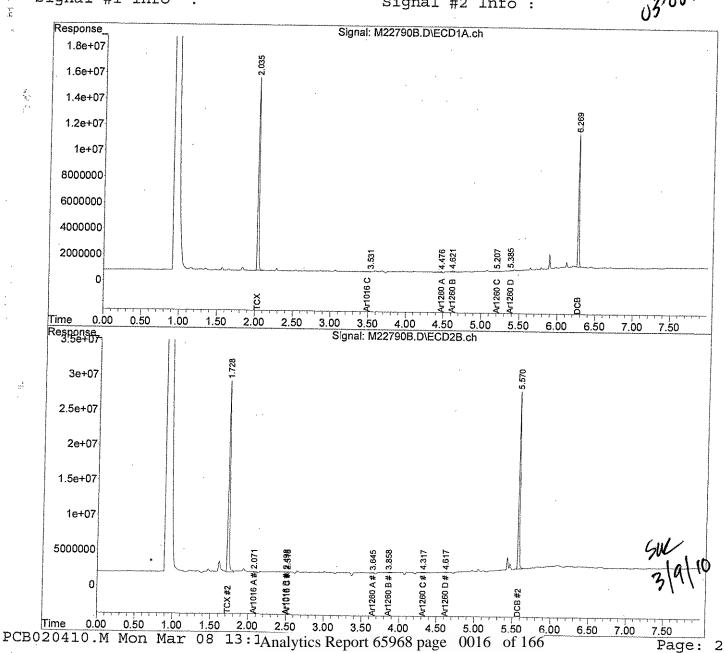
Response via : Initial Calibration

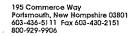
Integrator: ChemStation

Volume Inj. Signal #1 Phase :

Signal #1 Info

Signal #2 Phase: Signal #2 Info:







#### CLIENT SAMPLE ID

**Project Name:** 

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

Lab QC

March 9, 2010 SAMPLE DATA

Lab Sample ID:

B030510PSOX

Matrix:

Soil

Percent Solid:

N/A

**Dilution Factor:** 

1.0

Collection Date:

Lab Receipt Date:

**Extraction Date:** 

03/05/10

**Analysis Date:** 

03/08/10

	PCB ANALYTICAL RESULTS			
COMPOUND	Quantitation Limit μg/kg	Results μg/kg		
PCB-1016	. 33	U		
PCB-1221	33	U		
PCB-1232	33	U		
PCB-1242	33	U		
PCB-1248	33	U		
PCB-1254	33	U		
PCB-1260	33	U		
		•		
	Surrogate Standard Recovery			
	2,4,5,6-Tetrachloro-m-xylene 98	%		
	Decachlorobiphenyl 75	%		
U=Undetected	J=Estimated E=Exceeds Calibration Range	B=Detected in		

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Data Path : C:\msdchem\1\DATA\030810-M\

Data File: M22843B.D

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 8 Mar 2010 1:48 pm

Operator : JK

Sample : B030510PSOX

Misc : SOIL

ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 09 13:23:11 2010

Quant Method : C:\msdchem\1\METHODS\PCB020410.M

Quant Title : Aroclor 1016/1260

QLast Update : Thu Feb 04 11:18:55 2010

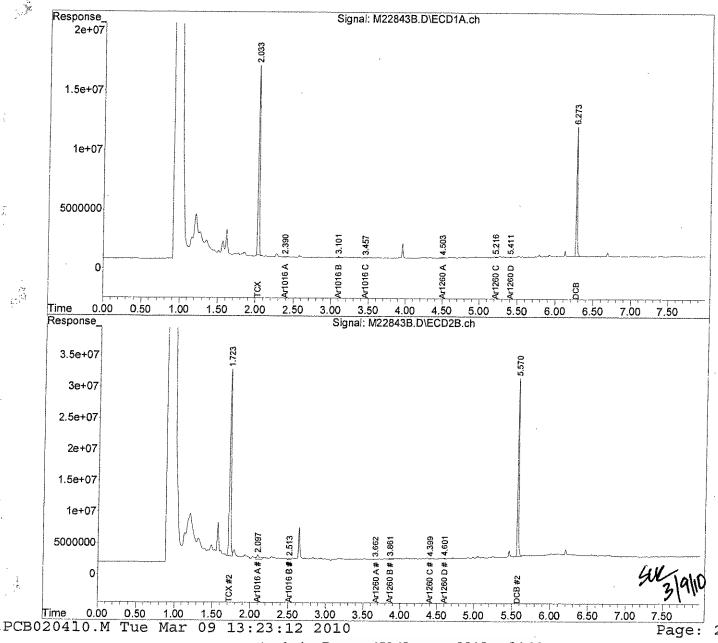
Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : Signal #1 Phase : Signal #1 Info :

Signal #2 Phase:
Signal #2 Info :

J205,10





**CLIENT SAMPLE ID** 

**Project Name:** 

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

Lab QC

March 9, 2010

SAMPLE DATA

Lab Sample ID:

B030810PW

Matrix:

Aqueous

Percent Solid:

N/A 1.0

Dilution Factor:

**Collection Date:** 

Lab Receipt Date:

**Extraction Date:** 

03/08/10

Analysis Date:

03/08/10

PCB ANALYTICAL RESULTS					
COMPOUND		Quantitation Limit µg/L	`		Results $\mu g/L$
PCB-1016		0.2			U
PCB-1221		0.2			U
PCB-1232		0.2			U
PCB-1242		0.2			U
PCB-1248		0.2			U
PCB-1254		0.2			U
PCB-1260	*	0.2			U
,	Surrogate	e Standard Recove	ry		
		chloro-m-xylene orobiphenyl	69 53	% %	
U=Undetceted	J=Estimated E=E	xceeds Calibration	Range	B=Detected in	

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

COMMENTS:

PCB Report

Data Path : C:\msdchem\1\DATA\030810-L\

Data File: L15819B.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 8 Mar 10 3:18 pm

Operator : MG

Sample : B030810PW

Misc

ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: Mar 08 15:59:28 2010

Quant Method : C:\msdchem\1\METHODS\PB030210.M

Quant Title : Aroclor 1016/1260

QLast Update : Wed Mar 03 10:27:55 2010

Response via : Initial Calibration

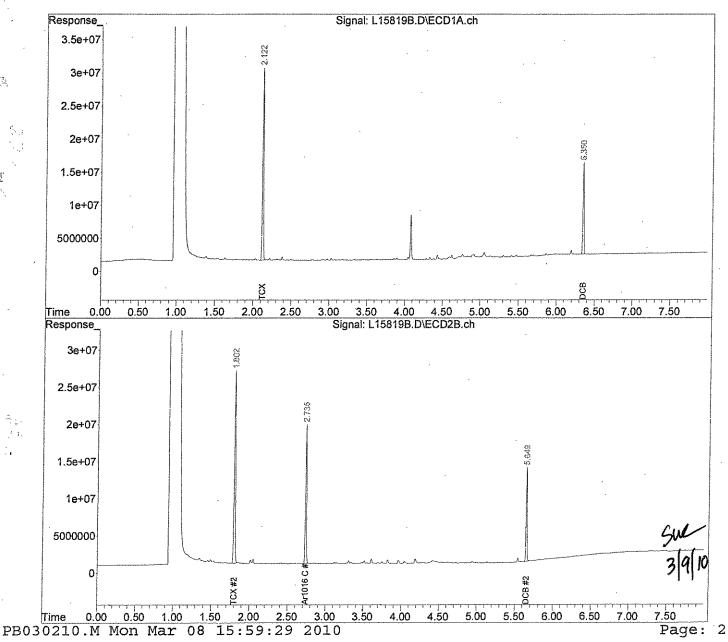
Integrator: ChemStation

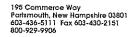
Volume Inj. : 3 ul

Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore

Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um film

73.810







#### CLIENT SAMPLE ID

**Project Name:** 

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

Lab QC

March 9, 2010

#### SAMPLE DATA

Lab Sample ID:

B030410PSOX RR

Matrix:

Soil

Percent Solid:

**Dilution Factor:** 

N/A 1.0

**Collection Date:** 

Lab Receipt Date: **Extraction Date:** 

03/04/10

Analysis Date:

03/08/10

	PCB ANALYTICAL RESUL	TS
COMPOUND	Quantitation Limit $\mu$ g/kg	Results μg/kg
PCB-1016	. 33	U
PCB-1221	33	U
PCB-1232	33	U .
PCB-1242	33	U
PCB-1248	33	U .
PCB-1254	33	U
PCB-1260	33	Ū ,
	Surrogate Standard Recovery	
`	2,4,5,6-Tetrachloro-m-xylene 91 Decachlorobiphenyl 69	% %
U=Undetected	J=Estimated E=Exceeds Calibration Range	B=Detected in

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

Results are expressed on a dry weight basis.

PCB Report

Data Path : C:\msdchem\1\DATA\030810-L\

Data File : L15828.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 8 Mar 10 4:52 pm

Operator : MG

Sample : B030410PSOX,RR

Misc

ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: Mar 08 18:14:25 2010

Quant Method: C:\msdchem\1\METHODS\PB030210.M

Quant Title : Aroclor 1016/1260

QLast Update : Wed Mar 03 10:27:55 2010

Response via : Initial Calibration

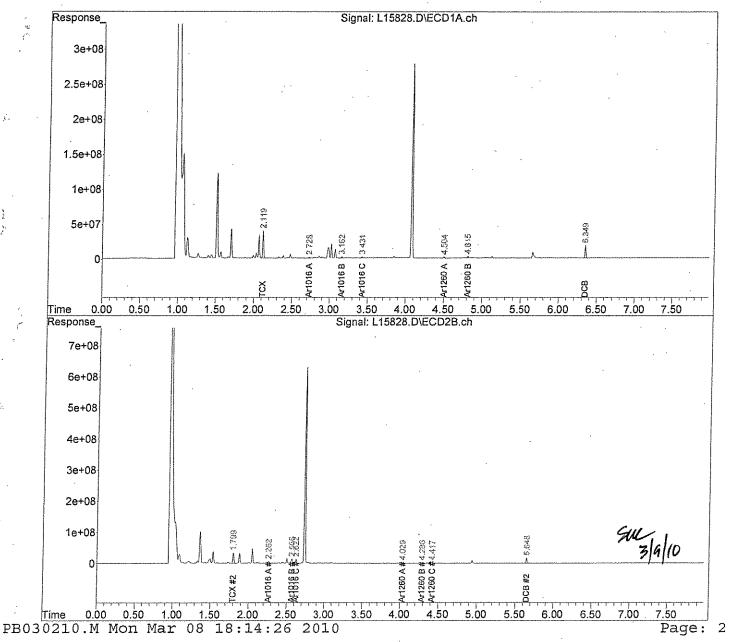
Integrator: ChemStation

Volume Inj. : 3 ul

Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore

Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um film

53-8-10



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**CLIENT SAMPLE ID** 

Project Name:

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

Lab QC

March 22, 2010 SAMPLE DATA

Lab Sample ID:

B030810PW RR 2-

Matrix:

Soil

Percent Solid: Dilution Factor: N/A 1.0

**Collection Date:** 

Lab Receipt Date:

**Extraction Date:** 

03/08/10

Analysis Date:

03/09/10

PCB ANALYTICAL RESULTS			
COMPOUND	Quantitation Limit $\mu g/kg$	Results  µg/kg	
PCB-1016	33	Ū .	
PCB-1221	33	U	
PCB-1232	33	U U	
PCB-1242	33	U	
PCB-1248	33	Ŭ	
PCB-1254	33	U	
PCB-1260	33	U	
		,	
Surrogate Standard Recovery			
	2,4,5,6-Tetrachloro-m-xylene 65 Decachlorobiphenyl 53	% %	
U=Undetected	J=Estimated E=Exceeds Calibration Range	B=Detected in	

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

Results are expressed on a dry weight basis.

PCB Report

Authorized signature Mulli

. Data Path : C:\msdchem\1\DATA\030910-L\

Data File : L15884B.D

Pg. Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 9 Mar 10 5:36 pm

Operator : MG

Sample : B030810PW, RR2

Misc

ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: Mar 10 08:34:08 2010

Quant Method : C:\msdchem\1\METHODS\PB030210.M

Quant Title : Aroclor 1016/1260

QLast Update : Wed Mar 03 10:27:55 2010

Response via: Initial Calibration

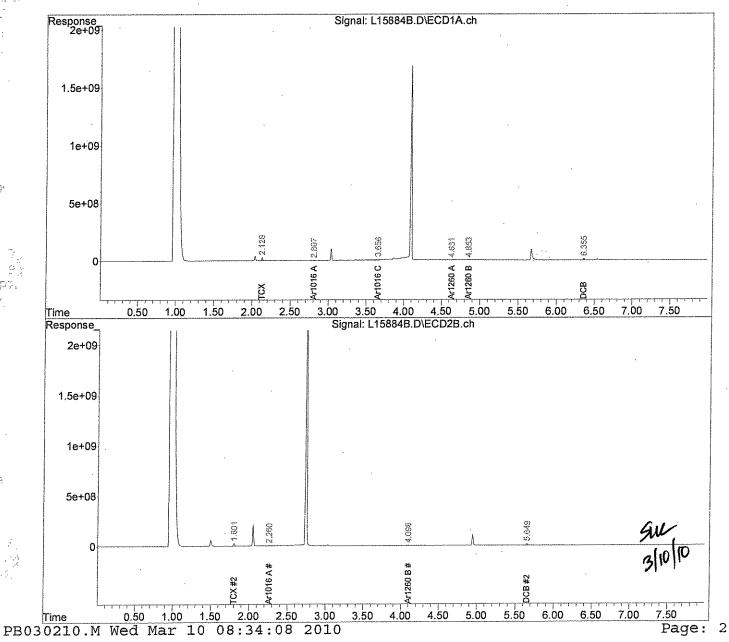
Integrator: ChemStation

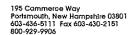
Volume Inj. : 3 ul

Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore

Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um film

23.10.10







CLIENT SAMPLE ID

**Project Name:** 

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

Lab QC

March 10, 2010 SAMPLE DATA

Lab Sample ID:

B030910PSOX

Matrix:

Soil

Percent Solid:

N/A

Dilution Factor:

1.0

**Collection Date:** 

Lab Receipt Date:

**Extraction Date:** 

03/09/10

Analysis Date:

03/10/10

PCB ANALYTICAL RESULTS				
COMPOUND	Quantitation Limit μg/kg	Results μg/kg		
PCB-1016	33	U		
PCB-1221	33	U		
PCB-1232	33	U		
PCB-1242	33	U		
PCB-1248	33	U		
PCB-1254	33	U		
PCB-1260	33	U		
Surrogate Standard Recovery				
	2,4,5,6-Tetrachloro-m-xylene 87	%		
	Decachlorobiphenyl 65	%		
U=Undetected J=Es	stimated E=Exceeds Calibration Range	B=Detected in		

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

Results are expressed on a dry weight basis.

PCB Report

Authorized signature ###

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2310:10

Data Path : C:\msdchem\1\DATA\030910-L\

Data File : L15904B.D

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 10 Mar 10 9:10 am

Operator : MG

Sample : B030910PSOX

Misc

1

ALS Vial Sample Multiplier: 1 : 3

Integration File signal 1: autointl.e Integration File signal 2: autoint2.e

Quant Time: Mar 10 10:44:26 2010

Quant Method : C:\msdchem\1\METHODS\PB030210.M

Quant Title : Aroclor 1016/1260

QLast Update : Wed Mar 03 10:27:55 2010

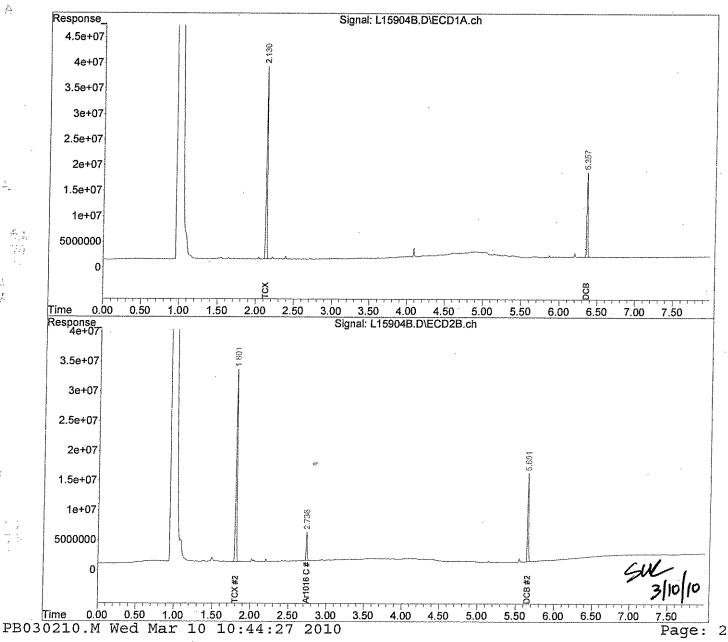
Response via : Initial Calibration

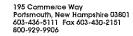
Integrator: ChemStation

Volume Inj. : 3 ul

Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore

: 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um film Signal #1 Info







CLIENT SAMPLE ID

Project Name:

Peabody Terrace

Project Number:

210980

Field Sample ID:

PTX-CBC-1011-0378

March 9, 2010

SAMPLE DATA

Lab Sample ID:

65968-1

Matrix:

Solid

Percent Solid:

98

Dilution Factor:

10

**Collection Date:** 

03/01/10

Lab Receipt Date:

03/02/10

**Extraction Date:** 

03/03/10

Analysis Date:

03/04/10

PCB ANALYTICAL RESULTS			
COMPOUND	Quantitation Limit $\mu$ g/kg	Results μg/kg	
PCB-1016	330	Ŭ	
PCB-1221	330	U	
PCB-1232	330	U	
PCB-1242	330	Ú	
PCB-1248	330	IJ	
PCB-1254	330	U	
PCB-1260	330	U	
Surrogate Standard Recovery			
	2,4,5,6-Tetrachloro-m-xylene 91 Decachlorobiphenyl 69	% %	
U=Undetected	J=Estimated E=Exceeds Calibration Range	B=Detected in	

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

Results are expressed on a dry weight basis.

PCB Report

Authorized signature

Stellher

Data Path : C:\msdchem\1\DATA\030410-M\

Data File: M22715.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 4 Mar 2010 4:23 pm

Operator : RM

54.1

Sample : 65968-1

Misc : SOIL, 50ML FV

ALS Vial : 88 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 05 09:17:25 2010

Quant Method : C:\msdchem\1\METHODS\PCB020410.M

Quant Title : Aroclor 1016/1260

QLast Update: Thu Feb 04 11:18:55 2010

Response via : Initial Calibration

Tintegrator: ChemStation

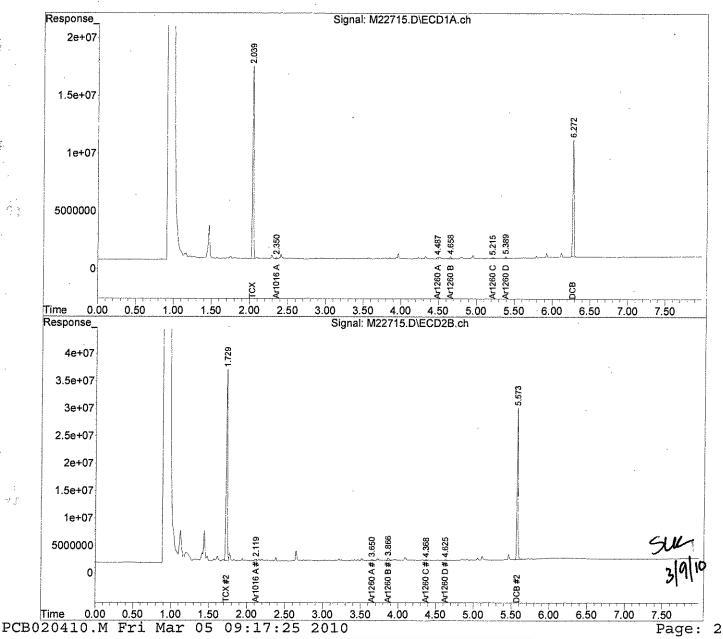
Volume Inj. :

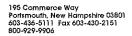
Signal #1 Phase : Signal #1 Info :

Signal #2 Phase:

Signal #2 Info :

03.08.10







Peabody Terrace

PTX-CBC-1012-0379

210980

Ms. Amy Wallace Woodard & Curran 35 NE Business Center Suite 180 Andover MA 01810

**Project Name:** 

**Project Number:** 

Field Sample ID:

CLIENT SAMPLE ID

March 9, 2010 SAMPLE DATA

Lab Sample ID:

65968-2

Matrix:

Solid

Percent Solid:

Dilution Factor:

98 191

**Collection Date:** 

03/01/10

Lab Receipt Date:

03/02/10

**Extraction Date:** 

03/03/10

Analysis Date:

03/05/10

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit $\mu g/kg$	Results $\mu g/kg$
PCB-1016	6300	U
PCB-1221	6300	U
PCB-1232	6300	U
PCB-1242	6300	n .
PCB-1248	6300	U
PCB-1254	6300	135000
PCB-1260	6300	U

#### Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene

%

Decachlorobiphenyl

%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

Results are expressed on a dry weight basis.

\* The surrogates were diluted out.

PCB Report

Authorized signature

Instrument ID: M

SDG: 65968

GC Column #1: STX-CLPesticides I

Sample: 65968-2,1:20

Column ID: 0.25 mm

Data File: M22796.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 190.9

Column ID: 0.25 mm

Column #1

Column #2

COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	131441	135414	3.0	

# Column to be used to flag RPD values greater than QC limit of 40%

\* Values outside QC limits

Comments:	•

Data Path : C:\msdchem\1\DATA\030510-M\

Data File: M22796.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 5 Mar 2010 6:28 pm

Operator : RM

Sample : 65968-2,1:20 Misc : SOIL,,50ML FV

ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 09 09:49:54 2010

Quant Method: C:\msdchem\1\METHODS\54SP020410.M

Quant Title :

QLast Update : Fri Feb 05 08:08:17 2010

Response via : Initial Calibration

Integrator: ChemStation

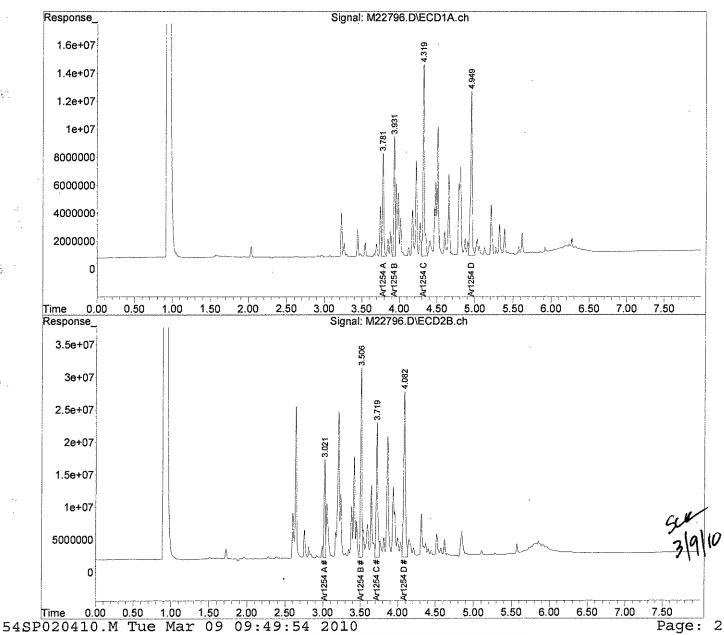
Volume Inj. :

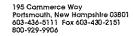
Signal #1 Phase : Signal #1 Info :

Signal #2 Phase:

Signal #2 Info :

0309.0







CLIENT SAMPLE ID

**Project Name:** 

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

PTX-CBC-1012-0380

March 9, 2010

SAMPLE DATA

Lab Sample ID:

65968-3

Matrix:

Solid

Percent Solid:

99

**Dilution Factor:** 

10

**Collection Date:** 

03/01/10

Lab Receipt Date: **Extraction Date:** 

03/02/10 03/03/10

Analysis Date:

03/04/10

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results μg/kg
PCB-1016	330	U
PCB-1221	330	U
PCB-1232	330	U
PCB-1242	330	U
PCB-1248	330	U
PCB-1254	330	U
PCB-1260	330	U
,		

#### Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene

92

%

Decachlorobiphenyl

%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature ###

### Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\030410-M\

Data File: M22719.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 4 Mar 2010 5:04 pm

Operator : RM

Sample : 65968-3

Misc : SOIL, 50ML FV

ALS Vial : 92 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 05 09:17:33 2010

Quant Method : C:\msdchem\1\METHODS\PCB020410.M

Quant Title : Aroclor 1016/1260

QLast Update : Thu Feb 04 11:18:55 2010

Response via : Initial Calibration

Integrator: ChemStation

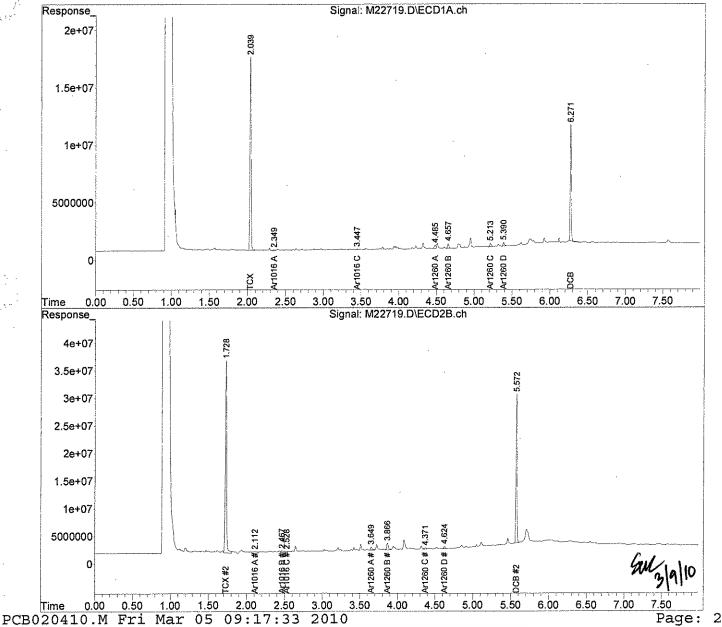
Volume Inj. : Signal #1 Phase :

Signal #1 Phase : Signal #1 Info :

Signal #2 Phase:

Signal #2 Info:

13.08.12







March 9, 2010 SAMPLE DATA

Lab Sample ID:

65968-4

CLIENT SAMPLE ID

Matrix:

Solid

Peabody Terrace

99

Percent Solid: **Dilution Factor: Collection Date:** 

10 03/01/10

Project Number:

Project Name:

210980

Field Sample ID:

PTX-CBC-1012-0381

Lab Receipt Date: 03/02/10 **Extraction Date:** 03/03/10

Analysis Date:

03/04/10

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results μg/kg
PCB-1016	330	U
PCB-122I	330	U
PCB-1232	330	U
PCB-1242	330	U
PCB-1248	330	U
PCB-1254	330	U
PCB-1260	330	U
		,

#### Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene

93 %

Decachlorobiphenyl

69 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature **Stellar** 

Data Path : C:\msdchem\1\DATA\030410-M\

Data File : M22720.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 4 Mar 2010 5:14 pm

Operator : RM

Sample : 65968-4

Misc : SOIL, 50ML FV

ALS Vial : 93 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 05 09:17:35 2010

Quant Method : C:\msdchem\1\METHODS\PCB020410.M

Quant Title : Aroclor 1016/1260

QLast Update : Thu Feb 04 11:18:55 2010

Response via : Initial Calibration

integrator: ChemStation

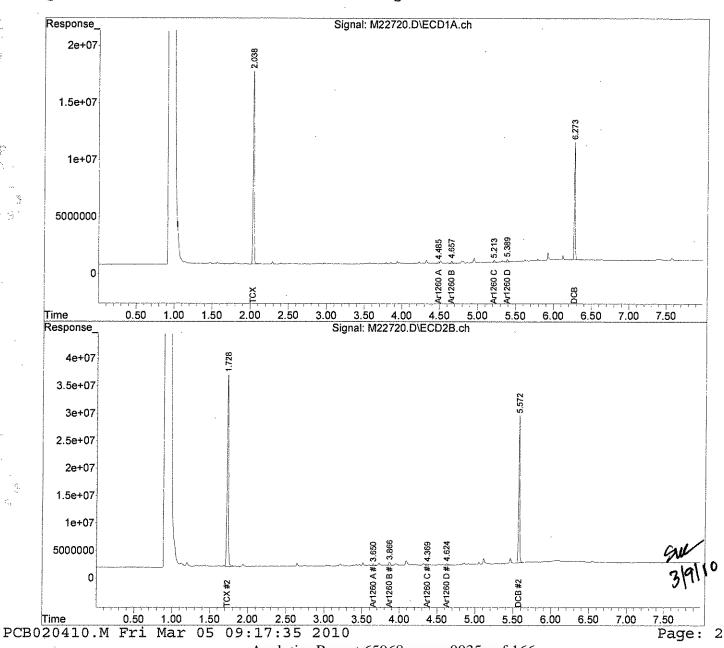
Volume Inj. : Signal #1 Phase :

Signal #1 Phase : Signal #1 Info :

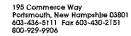
Signal #2 Phase:

Signal #2 Info:

07.08.W



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CLIENT SAMPLE ID

**Project Name:** 

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

PTX-CBC-1012-0382

March 9, 2010 **SAMPLE DATA** 

Lab Sample ID:

. .

65968-5 Solid

Matrix:

OOLG

Percent Solid:

-98 1013

Dilution Factor: Collection Date:

03/01/10

Lab Receipt Date:

03/02/10

**Extraction Date:** 

03/03/10

**Analysis Date:** 

03/08/10

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit $\mu$ g/kg	Results μg/kg
PCB-1016	33400	U
PCB-1221	33400	U
PCB-1232	33400	U
PCB-1242	33400	· U
PCB-1248	33400	U
PCB-1254	33400	467000
PCB-1260	33400	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene

\* %

Decachlorobiphenyl

\* %

U=Undetected J=Estimated

ed E=Exceeds Calibration Range B=Detected in

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

COMMENTS:

Results are expressed on a dry weight basis.

\* The surrogates were diluted out.

PCB Report

Authorized signature

gnature **GIM** 

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

Instrument ID: M

SDG: 65968

GC Column #1: STX-CLPesticides I

Sample: 65968-5,100X

Column ID: 0.25 mm

Data File: M22854.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 1013.2

Column ID: 0.25 mm

Column #1

Column #2

COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1245	447886	467470	4.3	

# Column to be used to flag RPD values greater than QC limit of 40%

\* Values outside QC limits

Comments:	•	

Data Path : C:\msdchem\1\DATA\030810-M\

Data File: M22854.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

%Acq On : 8 Mar 2010 3:38 pm

Operator : JK

Sample : 65968-5,100X

Misc : SOIL

ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 09 13:38:54 2010

Quant Method : C:\msdchem\1\METHODS\54SP020410.M

Quant Title :

QLast Update : Fri Feb 05 08:08:17 2010

Response via : Initial Calibration

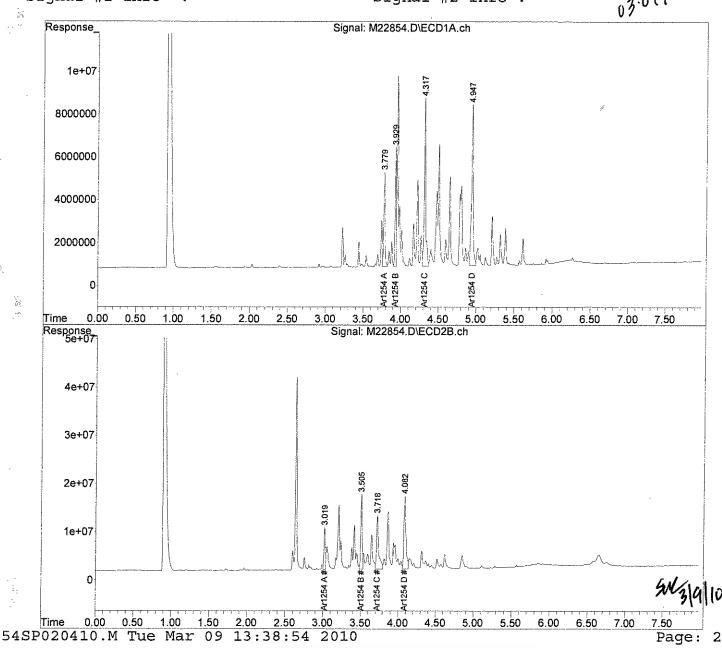
Integrator: ChemStation

Volume Inj. :

Signal #1 Phase : Signal #1 Info : Signal #2 Phase:

Signal #2 Info :

03.09.10



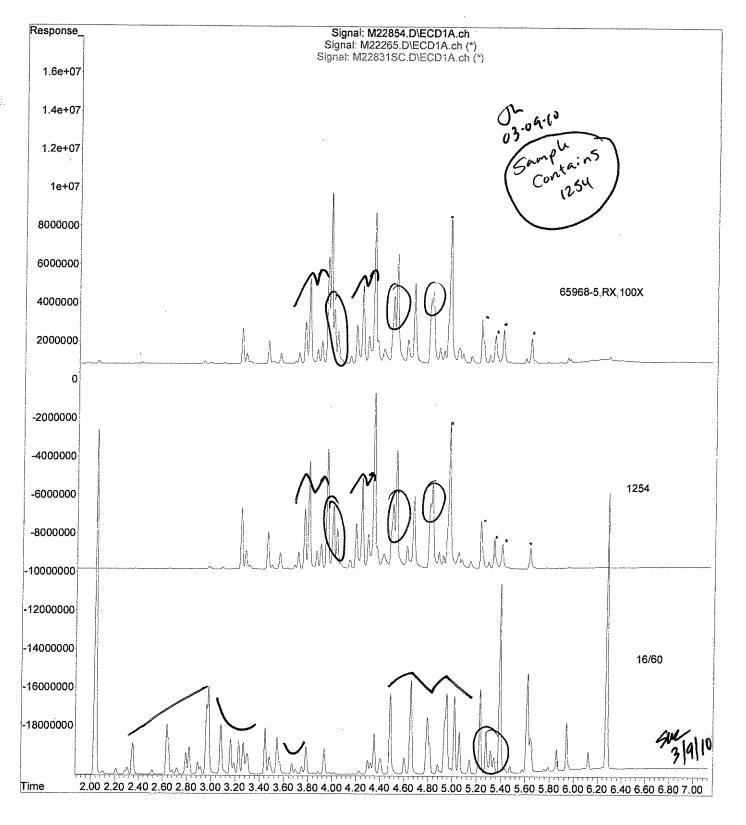
File :C:\msdchem\1\DATA\030810-M\M22854.D

Operator : JK

Acquired : 8 Mar 2010 3:38 pm using AcqMethod PCB.M

Instrument : Instrument M
Sample Name: 65968-5,100X

Misc Info : SOIL Vial Number: 20







CLIENT SAMPLE ID

Project Name:

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

PTX-CBC-1012-0383

March 9, 2010 SAMPLE DATA

Lab Sample ID: 65968-6 RX

Matrix:

Solid

Percent Solid:

99

Dilution Factor:

10

**Collection Date:** 

03/01/10

Lab Receipt Date:

03/02/10

**Extraction Date:** 

03/05/10

Analysis Date:

03/08/10

PCB	ANALYTICAL	<b>RESULTS</b>
	*	

COMPOUND	Quantitation Limit µg/kg	Results μg/kg
PCB-1016	330	U .
PCB-1221	330	U
PCB-1232	330	U
PCB-1242	330	U
PCB-1248	330	U .
PCB-1254	330	U
PCB-1260	330	U

#### Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene

%

Decachlorobiphenyl

73 %

J=Estimated E=Exceeds Calibration Range B=Detected in U=Undetected

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature ###

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\030810-M\

Data File: M22846.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 8 Mar 2010 2:18 pm

Operator : JK

10

Sample : 65968-6,RX

Misc : SOIL

ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 09 13:32:07 2010

Quant Method : C:\msdchem\1\METHODS\PCB020410.M

Quant Title : Aroclor 1016/1260

QLast Update : Thu Feb 04 11:18:55 2010

Response via : Initial Calibration

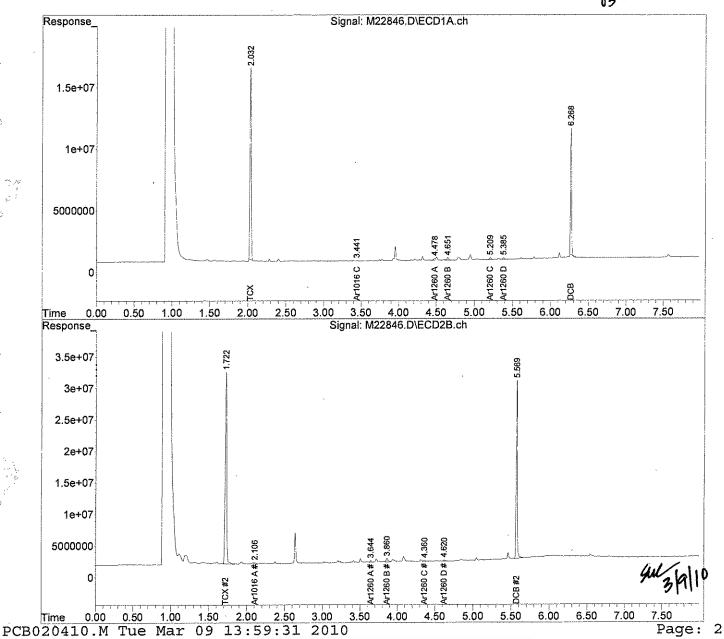
Integrator: ChemStation

Volume Inj. :

Signal #1 Phase : Signal #1 Info : Signal #2 Phase:

Signal #2 Info :

03.04.10





### CLIENT SAMPLE ID

Project Name:

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

PTX-CBC-1012-0384

### March 9, 2010 SAMPLE DATA

Lab Sample ID:

65968-7

Matrix:

Solid

Percent Solid:

99

Dilution Factor:

20

Collection Date:

03/01/10

Lab Receipt Date:

03/02/10

**Extraction Date:** 

03/03/10

Analysis Date:

03/05/10

### PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit μg/kg	Results μg/kg
PCB-1016	660	U <sub>,</sub>
PCB-1221	660	U
PCB-1232	660	U
PCB-1242	660	U
PCB-1248	660	U
PCB-1254	660	9810
PCB-1260	660	U

#### Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene 92

%

Decachlorobiphenyl

66 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

Instrument ID: M

SDG: 65968

GC Column #1: STX-CLPesticides I

Sample: 65968-7,1:2

Column ID: 0.25 mm

Data File: M22791.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 19.9

Column ID: 0.25 mm

Column #1

Column #2

COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	8246	9812	17.3	

# Column to be used to flag RPD values greater than QC limit of 40%

\* Values outside QC limits

Comments:	

Data Path : C:\msdchem\1\DATA\030510-M\

Data File: M22791.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

5 Mar 2010 5:37 pm Acq On :

Operator : RM

Sample 65968-7,1:2 : SOIL,,50ML FV Misc

ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e Quant Time: Mar 09 08:44:52 2010

Quant Method: C:\msdchem\1\METHODS\54SP020410.M

Quant Title

QLast Update : Fri Feb 05 08:08:17 2010

Response via : Initial Calibration

Integrator: ChemStation

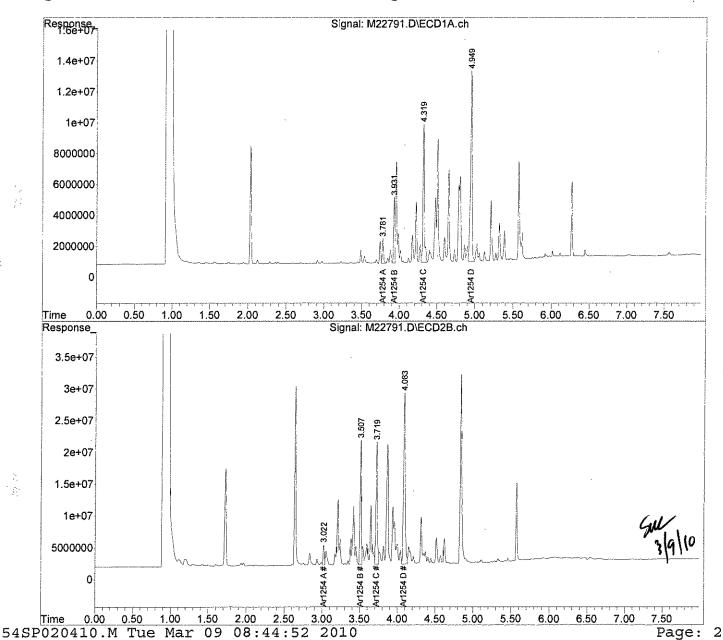
Volume Inj.

Signal #1 Phase : Signal #1 Info

Signal #2 Phase:

Signal #2 Info :

03.04.10



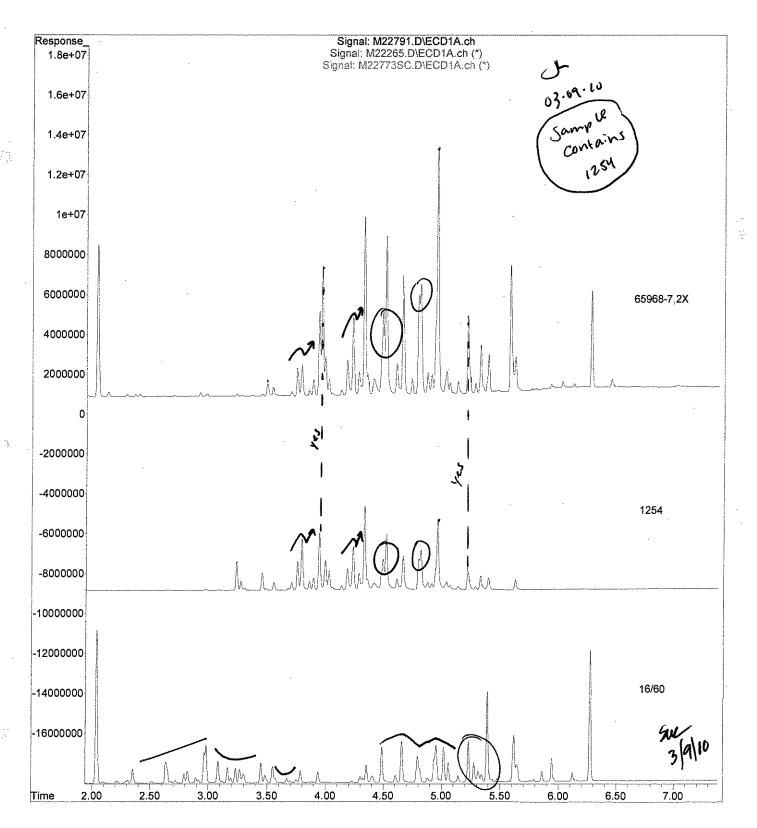
File :C:\msdchem\1\DATA\030510-M\M22791.D

Operator : RM

Acquired : 5 Mar 2010 5:37 pm using AcqMethod PCB.M

Instrument : Instrument M
Sample Name: 65968-7,1:2
Misc Info : SOIL,,50ML FV

Vial Number: 11







CLIENT SAMPLE ID

Project Name:

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

PTX-CBCD-1012-0385

Lab Sample ID: 65968-8 Matrix: Solid Percent Solid: 98 Dilution Factor: 198 **Collection Date:** 03/01/10 Lab Receipt Date: 03/02/10

March 9, 2010

SAMPLE DATA

**Extraction Date:** 

03/03/10

**Analysis Date:** 

03/05/10

-	PCB ANALYTICAL RESUL	TS
COMPOUND	Quantitation Limit $\mu$ g/kg	Results μg/kg
PCB-1016	6530	· U
PCB-1221	6530	U
PCB-1232	6530	U .
PCB-1242	6530	U
PCB-1248	6530	U
PCB-1254	6530	95100
PCB-1260	6530	Ü
` \$	urrogate Standard Recovery	
2,4,	5,6-Tetrachloro-m-xylene *	%
	Decachlorobiphenyl *	%

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

Results are expressed on a dry weight basis.

\* The surrogates were diluted out.

PCB Report

Authorized signature

Stille

Instrument ID: M

SDG: 65968

GC Column #1: STX-CLPesticides I

Sample: 65968-8,1:20,,A/C

Column ID: 0.25 mm

Data File: M22795.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 197.9

Column ID: 0.25 mm

Column #1

Column #2

COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	91437	95133	4.0	

# Column to be used to flag RPD values greater than QC limit of 40%

\* Values outside QC limits

	· ·	
Comments:		
Commence.		

Data Path : C:\msdchem\1\DATA\030510-M\

Data File: M22795.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On 5 Mar 2010 6:18 pm

Operator : RM

Sample : 65968-8,1:20,,A/C

Misc : SOIL

ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 09 09:39:43 2010

Quant Method : C:\msdchem\1\METHODS\54SP020410.M

Quant Title

QLast Update : Fri Feb 05 08:08:17 2010

Response via : Initial Calibration

Integrator: ChemStation

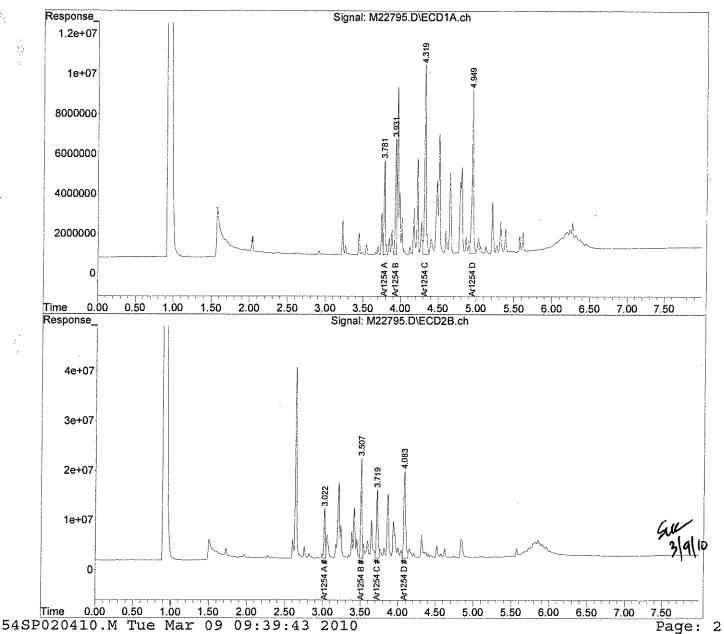
Volume Inj. Signal #1 Phase :

Signal #1 Info

6

Signal #2 Phase:

Signal #2 Info :



File :C:\msdchem\1\DATA\030510-M\M22795.D

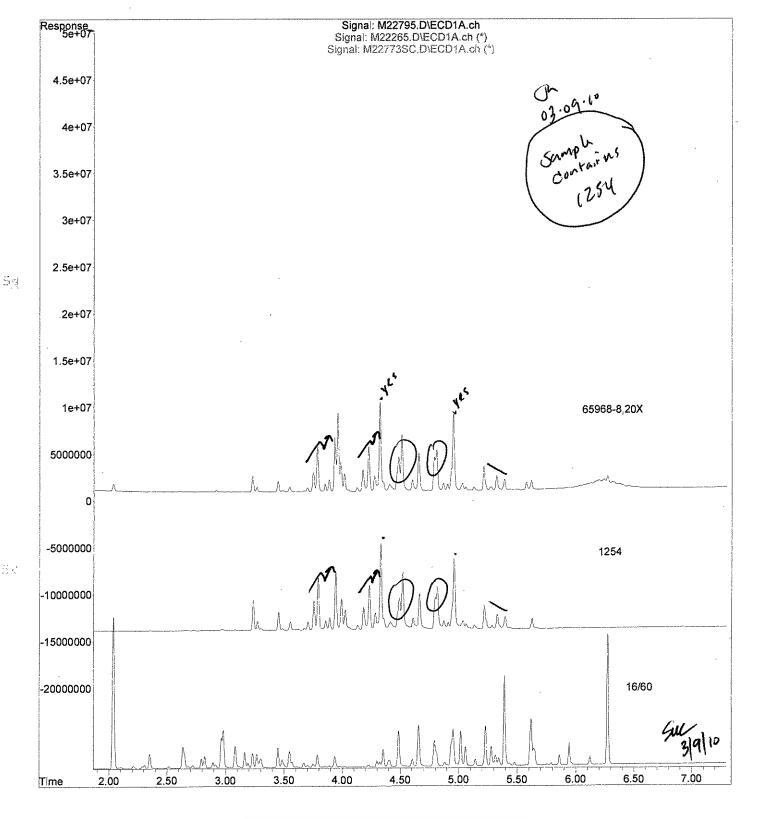
Operator : RM

Acquired : 5 Mar 2010 6:18 pm using AcqMethod PCB.M

Instrument : Instrument M
Sample Name: 65968-8,1:20,,A/C

Misc Info : SOIL Vial Number: 15

13.50



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March 10, 2010

#### SAMPLE DATA

CLIENT SAMPLE ID

Project Name:

Peabody Terrace

**Project Number:** 

210980

**COMPOUND** 

PCB-1016

PCB-1221

PCB-1254

Field Sample ID:

PTX-CBK-1012-0386

Lab Sample ID: 65968-9 Matrix: Solid Percent Solid: 99 Dilution Factor: 15700 **Collection Date:** 03/01/10 Lab Receipt Date: 03/02/10

**Extraction Date:** 

Analysis Date:

03/03/10 03/09/10

U

U

U

10200000

PCB ANALYTICAL RESULTS Quantitation

Results Limit µg/kg  $\mu$ g/kg 518000 U

PCB-1232 518000

PCB-1242 518000

PCB-1248 518000 U

518000

PCB-1260 518000 U

518000

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene %

> Decachlorobiphenyl. %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. COMMENTS: Results are expressed on a dry weight basis.

\* The surrogates were diluted out.

PCB Report

Authorized signature

Instrument ID: L

SDG:

GC Column #1: STX-CLPesticides I

Sample: 65968-9,1:2000

Column ID: 0.25 mm

Data File: L15887.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 15684.2

Column ID: 0.25 mm

Column #1

Column #2

COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	10256457	9470127	8.0	

- # Column to be used to flag RPD values greater than QC limit of 40%
- \* Values outside QC limits

	•
<u> </u>	
Comments:	
Commens.	

Data Path : C:\msdchem\1\DATA\030910-L\

Data File: L15887.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 9 Mar 10 6:07 pm

Operator : MG

Sample : 65968-9,1:2000

Misc

75

ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 10 08:43:45 2010

Quant Method: C:\msdchem\1\METHODS\54SP30210.M

Quant Title :

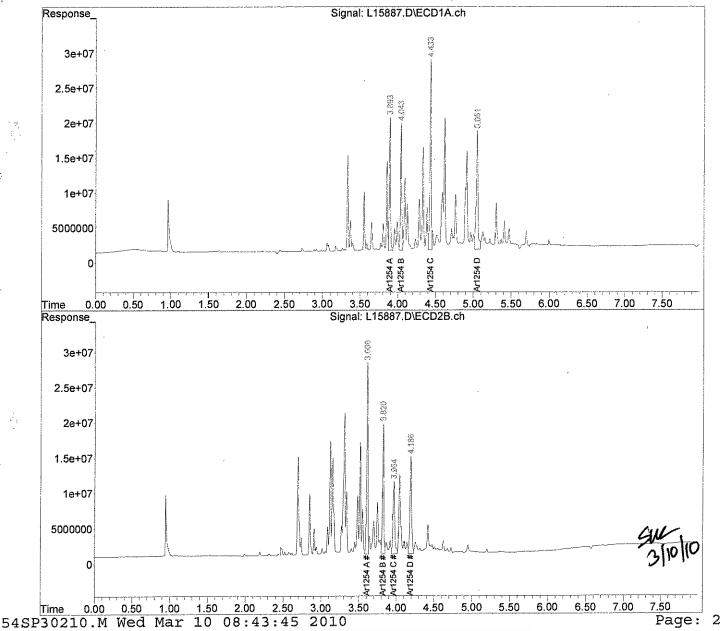
QLast Update : Mon Mar 08 18:20:16 2010

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. :

Signal #1 Phase : Signal #2 Phase: Signal #1 Info : Signal #2 Info :







Peabody Terrace

PTX-CBK-1012-0387

210980

Ms. Amy Wallace Woodard & Curran 35 NE Business Center Suite 180 Andover MA 01810

**Project Name:** 

**Project Number:** 

Field Sample ID:

CLIENT SAMPLE ID

March 10, 2010 SAMPLE DATA

Lab Sample ID:

65968-10

Matrix:

Solid

97

**Percent Solid: Dilution Factor:** 

7350

**Collection Date:** 

03/01/10

Lab Receipt Date:

03/02/10

**Extraction Date:** 

03/03/10

**Analysis Date:** 

03/09/10

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit μg/kg	Results µg/kg
PCB-1016	243000	U
PCB-1221	243000	U
PCB-1232	243000	U
PCB-1242	243000	U
PCB-1248	243000	U
PCB-1254	243000	3550000
PCB-1260	243000	ΰ

#### Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene

%

Decachlorobiphenyl

%

U=Undetected J=Estimated E=Exceeds Calibration Range

B=Detected in

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. COMMENTS: Results are expressed on a dry weight basis.

\* The surrogates were diluted out.

PCB Report

Authorized signature

St. Ulm

Instrument ID: L

SDG:

GC Column #1: STX-CLPesticides I

Sample: 65968-10,1:1000

Column ID: 0.25 mm

Data File: L15888.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 7346.4

Column ID: 0.25 mm

Column #1

Column #2

COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	3552507	2802643	23.6	

- # Column to be used to flag RPD values greater than QC limit of 40%
- \* Values outside QC limits

Comments:	

Data Path : C:\msdchem\1\DATA\030910-L\

Data File : L15888.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 9 Mar 10 6:17 pm

Operator : MG

Sample : 65968-10,1:1000

Misc

0

ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 10 08:44:21 2010

Quant Method: C:\msdchem\1\METHODS\54SP30210.M

Quant Title :

QLast Update : Mon Mar 08 18:20:16 2010

Response via : Initial Calibration

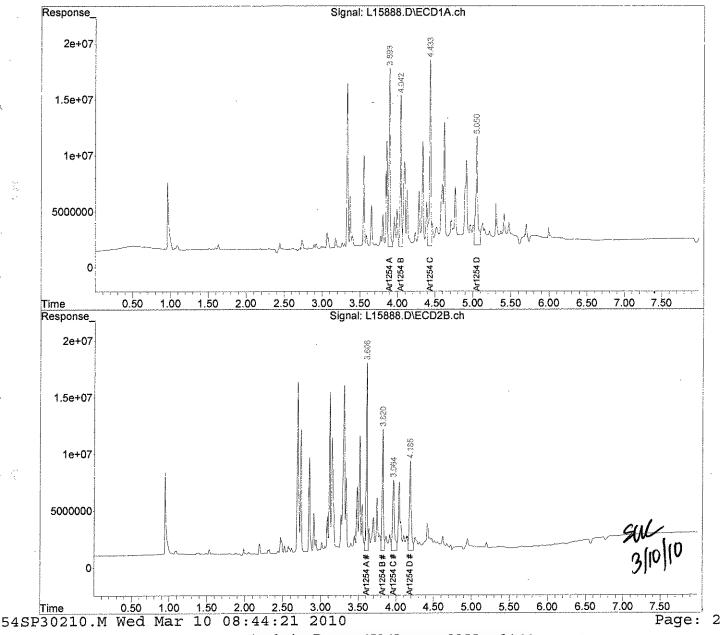
Integrator: ChemStation

Volume Inj.

Signal #1 Phase : Signal #1 Info : Signal #2 Phase:

53.10.10

Signal #2 Info:





March 10, 2010

### SAMPLE DATA

CLIENT SAMPLE ID

**Project Name:** 

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

PTX-CBK-1012-0388

Lab Sample ID: 65968-11 Matrix: Solid Percent Solid: 99 **Dilution Factor:** 95 **Collection Date:** 03/01/10 Lab Receipt Date: 03/02/10 **Extraction Date:** 03/02/10

Analysis Date: 03/10/10

PCB ANALYTICAL RESULTS				
COMPOUND	Quantitation Limit µg/kg	Results μg/kg		
PCB-1016	3140	U		
PCB-1221	3140	u .		
PCB-1232	3140	U		
PCB-1242	3140	U		
PCB-1248	3140	U		
PCB-1254	3140	70400 P		
PCB-1260	3140	U		
	Surrogate Standard Recovery			
	2,4,5,6-Tetrachloro-m-xylene 73 Decachlorobiphenyl 43	% %		
U=Undetected J=	Estimated E=Exceeds Calibration Range	B=Detected in		

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

Results are expressed on a dry weight basis. P=Sample did not meet confirmation acceptance criteria for percent

difference.

PCB Report

Authorized signature

Instrument ID: L

SDG:

GC Column #1: STX-CLPesticides I

Sample: 65968-I1, 1:10,3/3/10

Column ID: 0.25 mm

Data File: 115914.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 95.1

Column ID: 0.25 mm

Column #1

Column #2

COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	70361	39356	56.5	*

- # Column to be used to flag RPD values greater than QC limit of 40%
- \* Values outside QC limits

_		
Comments:		

Data Path : C:\msdchem\1\DATA\030910-L\

Data File : 115914.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

: 10 Mar 10 Acq On 12:28 pm

Operator : MG

25 Sample : 65968-11, 1:10,3/3/10

3 Misc

34

ALS Vial Sample Multiplier: 1 : 12

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 10 12:44:34 2010

Quant Method: C:\msdchem\1\METHODS\54SP30210.M

53-1010

11.00

Quant Title

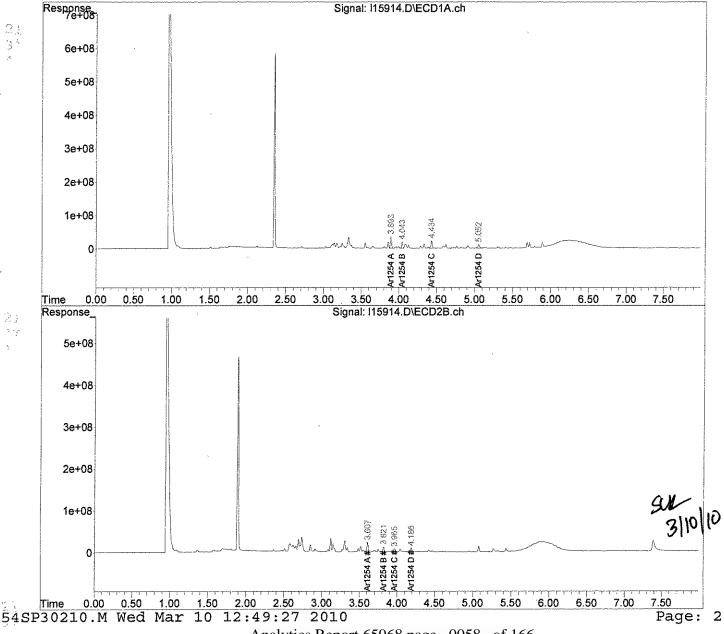
QLast Update : Mon Mar 08 18:20:16 2010

Response via: Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase : Signal #2 Phase: Signal #1 Info Signal #2 Info :



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March 9, 2010

SAMPLE DATA

Solid

03/01/10

98

**Collection Date:** 

65968-12 RX



210980

Ms. Amy Wallace Woodard & Curran 35 NE Business Center Suite 180 Andover MA 01810

**Project Number:** 

Lab Sample ID:

Matrix:

CLIENT SAMPLE ID Percent Solid:

Project Name: Peabody Terrace **Dilution Factor:** 10

Lab Receipt Date: 03/02/10 Field Sample ID: PTX-CBC-11104-0389

**Extraction Date:** 03/05/10 03/08/10 Analysis Date:

	PCB ANALYTICAL RE	SULTS	$\mathbf{s}$	
COMPOUND	Quantitation Limit μg/kg		Results μg/kg	
PCB-1016	330	U		
PCB-1221	330		U	
PCB-1232	330	U		
PCB-1242	330		U	
PCB-1248	330	U		
PCB-1254	330	663		
PCB-1260	330		U	
	Surrogate Standard Recovery	, -		
	•	97 %	<b>%</b>	
	Decachlorobiphenyl	74 %	76	

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

J=Estimated E=Exceeds Calibration Range B=Detected in

COMMENTS: Results are expressed on a dry weight basis.

U=Undetected

PCB Report

Instrument ID: M

SDG: 65968

GC Column #1: STX-CLPesticides I

Sample: 65968-12,RX

Column ID: 0.25 mm

Data File: M22847.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 9.9

Column ID: 0.25 mm

Column #1

Column #2

COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	663	592	11.2	

# Column to be used to flag RPD values greater than QC limit of 40%

\* Values outside QC limits

Comments:			
	 	 ***************************************	

Data Path : C:\msdchem\1\DATA\030810-M\

Data File: M22847.D

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 8 Mar 2010 2:28 pm

Operator : JK

Sample : 65968-12,RX

Misc : SOIL

ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 09 14:01:12 2010

Quant Method: C:\msdchem\1\METHODS\54SP020410.M

Quant Title :

QLast Update : Fri Feb 05 08:08:17 2010

Response via: Initial Calibration

Integrator: ChemStation

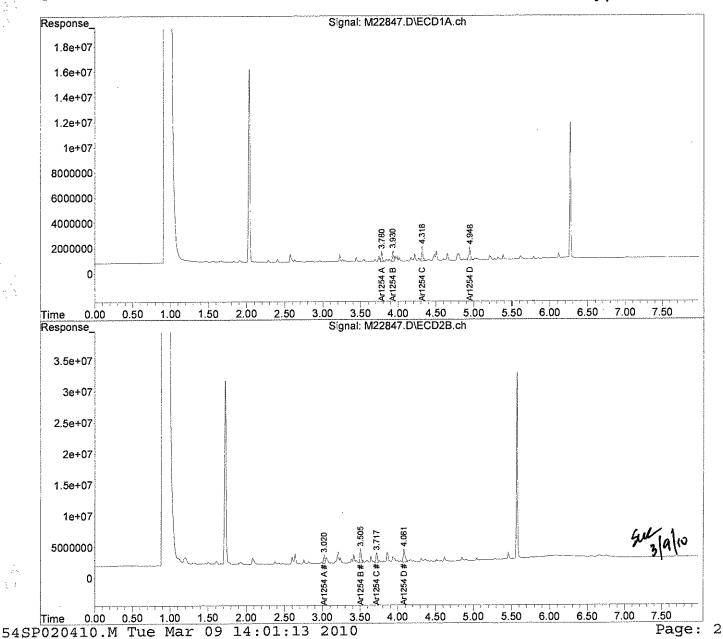
Volume Inj. :

Signal #1 Phase : Signal #1 Info :

Signal #2 Phase:

Signal #2 Info :

13-14.14



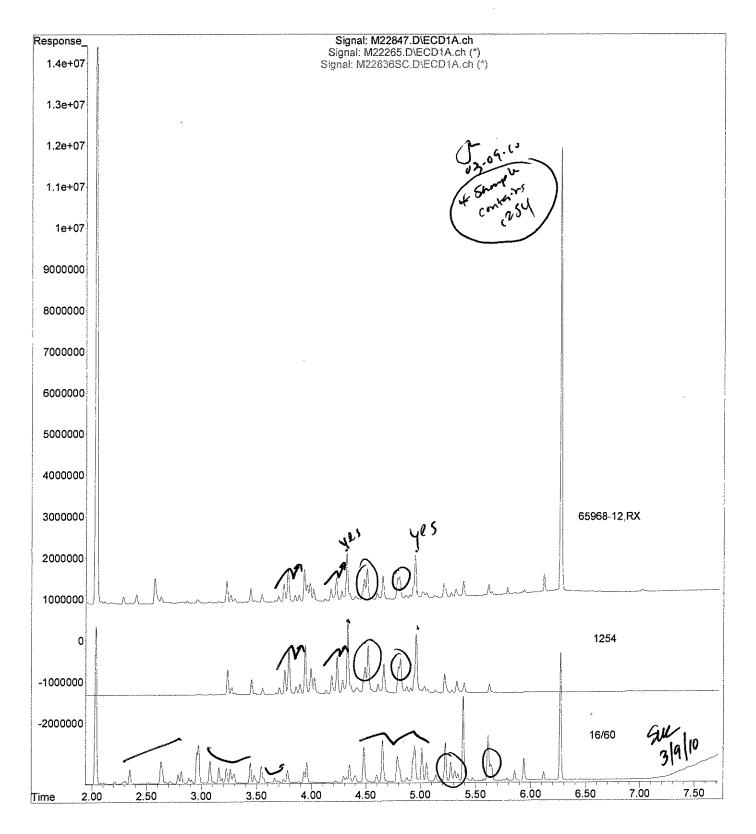
File :C:\msdchem\1\DATA\030810-M\M22847.D

Operator : JK

Acquired : 8 Mar 2010 2:28 pm using AcqMethod PCB.M

Instrument : Instrument M
Sample Name: 65968-12,RX

Misc Info : SOIL Vial Number: 13





CLIENT SAMPLE ID

**Project Name:** 

Peabody Terrace

Project Number:

210980

Field Sample ID:

PTX-CBC-11104-0390

March 9, 2010

SAMPLE DATA

Lab Sample ID:

65968-13

Matrix:

Solid

Percent Solid: **Dilution Factor:**  98 9

**Collection Date:** 

03/01/10

Lab Receipt Date:

03/02/10

**Extraction Date:** 

03/03/10

Analysis Date:

03/04/10

PCB ANALYTICAL RESULTS				
COMPOUND	Quantitation Limit $\mu$ g/kg	Results µg/kg		
PCB-1016	300	U		
PCB-1221	300	U		
PCB-1232	300	U		
PCB-1242	. 300	U		
PCB-1248	300	U		
PCB-1254	300	U		
PCB-1260	300	U		
Surrogate Standard Recovery				
	2,4,5,6-Tetrachloro-m-xylene 88  Decachlorobiphenyl 69	% %		
U=Undetected	J=Estimated E=Exceeds Calibration Range	B=Detected in		

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.

PCB Repart

Authorized signature Library

Data Path : C:\msdchem\1\DATA\030410-M\

Data File : M22726.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

4 Mar 2010 6:14 pm Acq On

: RM Operator

Acapsample : 65968-13

> Misc : SOIL, 50ML FV

ALS Vial Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 05 09:17:47 2010

Quant Method : C:\msdchem\1\METHODS\PCB020410.M

Quant Title : Aroclor 1016/1260

QLast Update : Thu Feb 04 11:18:55 2010

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Info

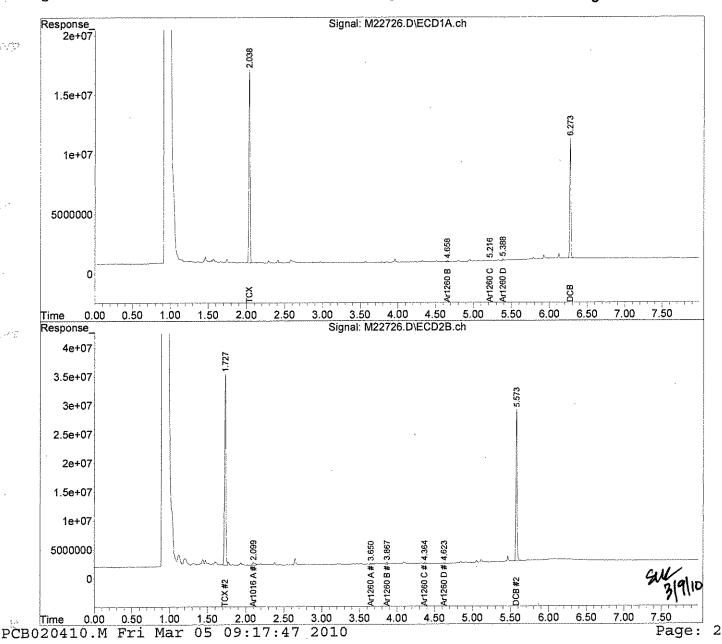
AND

Signal #1 Phase :

Signal #2 Phase:

Signal #2 Info :

03.03/1?





CLIENT SAMPLE ID

Project Name:

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

PTB-CBC-1412-0391

March 9, 2010 SAMPLE DATA

Lab Sample ID:

65968-14 RX

Matrix:

Solid

Percent Solid:

97

**Dilution Factor:** 

10

**Collection Date:** 

03/01/10

Lab Receipt Date:

03/02/10

**Extraction Date:** 

03/05/10

Analysis Date:

03/08/10

COMPOUND	Quantitation Limit μg/kg	Results μg/kg
PCB-1016	330	U
PCB-1221	330	U
PCB-1232	330	U
PCB-1242	330	U
PCB-1248	330	U
PCB-1254	330	U
PCB-1260	330	U

### Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene

94

%

Decachlorobiphenyl

78 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

Results are expressed on a dry weight basis.

PCB Report

Data Path : C:\msdchem\1\DATA\030810-M\

Data File: M22848.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 8 Mar 2010 2:38 pm

Operator : JK

PCE Av

Sample : 65968-14,RX

Misc : SOIL

ALS Vial: 14 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 09 13:28:26 2010

Quant Method : C:\msdchem\1\METHODS\PCB020410.M

Quant Title : Aroclor 1016/1260

QLast Update: Thu Feb 04 11:18:55 2010

Response via: Initial Calibration

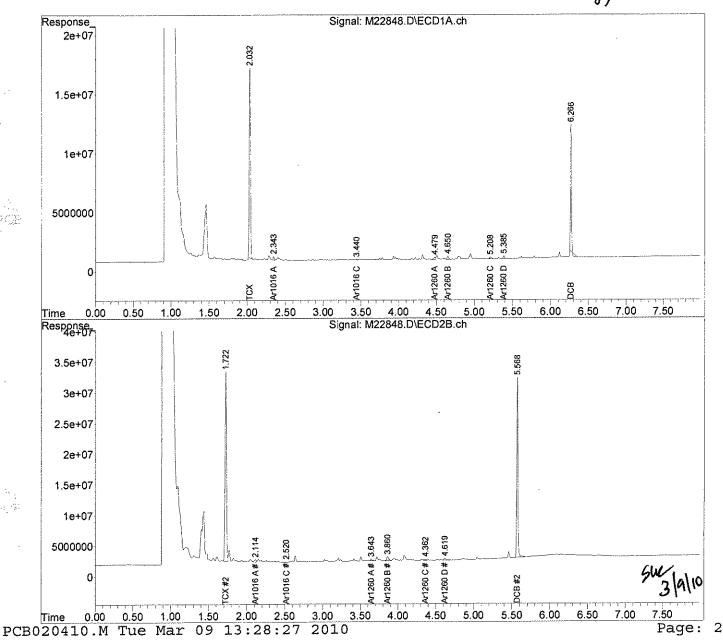
per Integrator: ChemStation

Volume Inj. :

Signal #1 Phase : Signal #1 Info : Signal #2 Phase:

Signal #2 Info:

13.04.10





CLIENT SAMPLE ID

**Project Name:** 

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

PTB-CBC-1412-0392

March 9, 2010

SAMPLE DATA

Lab Sample ID:

65968-15

Matrix:

Solid

Percent Solid:

96

Dilution Factor:

10

**Collection Date:** 

03/01/10

Lab Receipt Date: **Extraction Date:** 

03/02/10 03/03/10

Analysis Date:

03/04/10

PCB ANALYTICAL RESULTS

COMPOUND	Qua <b>n</b> titation Limit $\mu$ g/kg	Results µg/kg
PCB-1016	330	Ŭ
PCB-1221	330	U
PCB-1232	330	U
PCB-1242	330	U
PCB-1248	330	U
PCB-1254	330	U
PCB-1260	330	U

### Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene

89 %

Decachlorobiphenyl

70 %

J=Estimated E=Exceeds Calibration Range U=Undetected B=Detected in

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Data Path : C:\msdchem\1\DATA\030410-M\

Data File: M22728.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

4 Mar 2010 6:35 pm Acq On

Operator : RM

: 65968-15 Sample

Misc : SOIL, 50ML FV

ALS Vial Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 05 09:17:51 2010

Quant Method : C:\msdchem\1\METHODS\PCB020410.M

Quant Title : Aroclor 1016/1260

QLast Update : Thu Feb 04 11:18:55 2010

Response via : Initial Calibration

Integrator: ChemStation

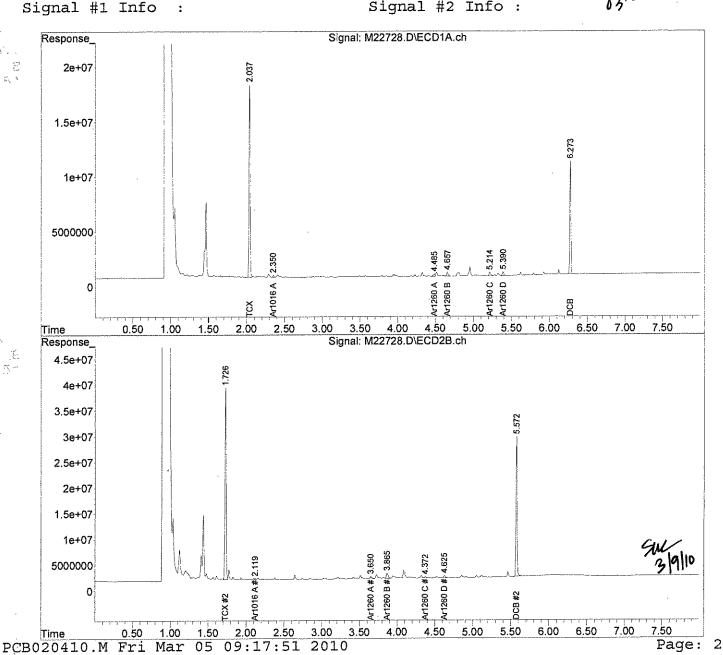
Volume Inj.

Signal #1 Phase :

,^ 4

Signal #2 Phase:

Signal #2 Info :





CLIENT SAMPLE ID

Project Name:

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

PTB-CBK-1412-0393

March 10, 2010 **SAMPLE DATA** 

Lab Sample ID:

65968-16

Matrix:

Solid

Percent Solid:

99

**Dilution Factor:** 

167

**Collection Date:** 

03/01/10

Lab Receipt Date:

03/01/10

Extraction Date:

03/03/10

**Analysis Date:** 

03/08/10

	Analysis Date:	
	PCB ANALYTICAL RESULTS	
COMPOUND	Quantitation Limit μg/kg	Results μg/kg
PCB-1016	5510	U
PCB-1221	5510	U
PCB-1232	5510	U
PCB-1242	5510	U
PCB-1248	5510	U
PCB-1254	5510	50800
PCB-1260	5510	U
	Surrogate Standard Recovery	
	2,4,5,6-Tetrachloro-m-xylene * %	
	Decachlorobiphenyl * %	

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

J=Estimated E=Exceeds Calibration Range B=Detected in

COMMENTS:

Results are expressed on a dry weight basis.

\* The surrogates were diluted out.

U=Undetected

PCB Report

Authorized signature

St. Ville

# PCB COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L

SDG:

GC Column #1: STX-CLPesticides I

Sample: 65968-16,1:20

Column ID: 0.25 mm

Data File: L15835.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 166.9

Column ID: 0.25 mm

Column #1

Column #2

COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	50802	50667	0.3	

- # Column to be used to flag RPD values greater than QC limit of 40%
- \* Values outside QC limits

Comments:	

53.9.10

Data Path : C:\msdchem\1\DATA\030810-L\

Data File : L15835.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

8 Mar 10 10:44 pm Acq On

Operator : MG

65968-16,1:20 Sample

Misc

ALS Vial Sample Multiplier: 1 23

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 08 22:57:52 2010

Quant Method: C:\msdchem\1\METHODS\54SP30210.M

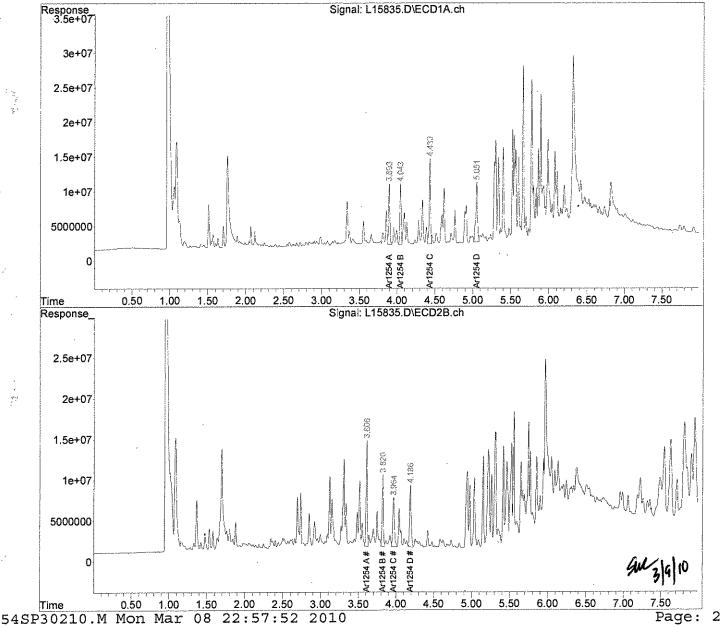
Quant Title

QLast Update: Mon Mar 08 18:20:16 2010 Response via: Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase : Signal #2 Phase: Signal #2 Info : Signal #1 Info



File :C:\msdchem\1\DATA\030810-L\L15835.D

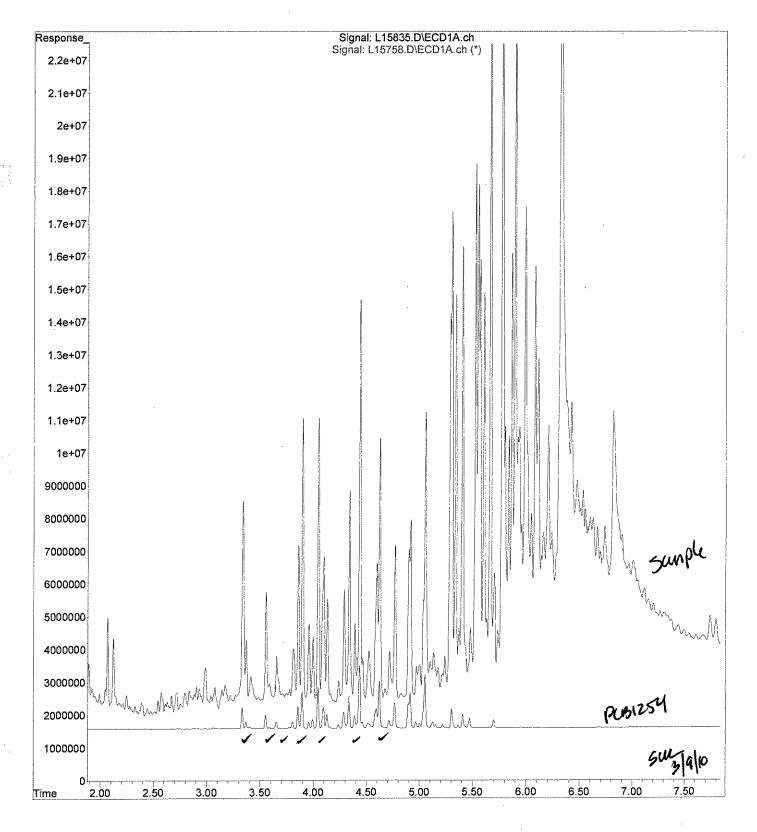
Operator : MG

Acquired : 8 Mar 10 10:44 pm using AcqMethod PEST.M

Instrument : Inst L

Sample Name: 65968-16,1:20

Misc Info : Vial Number: 23 ~3.9.10





CLIENT SAMPLE ID

Project Name:

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

PTC-CBK-1212-0394

March 10, 2010 SAMPLE DATA

Lab Sample ID:

65968-17 RX

Matrix:

Solid

Percent Solid:

100

**Dilution Factor:** 

4610

**Collection Date:** 

03/01/10

Lab Receipt Date:

03/02/10

**Extraction Date:** 

03/04/10

Analysis Date:

03/09/10

	PCB ANALYTICAL R	ESUL	TS	
COMPOUND	Quantitation Limit $\mu$ g/kg			- Results μg/kg
PCB-1016	152000			U
PCB-1221	152000			U
PCB-1232	152000			U
PCB-1242	152000			U
PCB-1248	152000			U
PCB-1254	152000			2390000
PCB-1260	152000			U
	Surrogate Standard Recove	<u>cy</u>		
	2,4,5,6-Tetrachloro-m-xylene	ж	%	
	Decachlorobiphenyl	*	%	

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

J=Estimated E=Exceeds Calibration Range

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

Results are expressed on a dry weight basis.

\* The surrogates were diluted out.

U=Undetected

PCB Report

B=Detected in

## PCB COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L

SDG:

GC Column #1: STX-CLPesticides I

Sample: 65968-17,RX,1:500

Column ID: 0.25 mm

Data File: L15886.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 4608.8

Column ID: 0.25 mm

Column #1

Column #2

COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	2385716	2056334	14.8	

- # Column to be used to flag RPD values greater than QC limit of 40%
- \* Values outside QC limits

Comments:			

23/010

Data Path : C:\msdchem\1\DATA\030910-L\

Data File : L15886.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 9 Mar 10 5:57 pm

Operator : MG

Sample : 65968-17, RX, 1:500

Misc

ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 10 08:43:21 2010

Quant Method : C:\msdchem\1\METHODS\54SP30210.M

Quant Title :

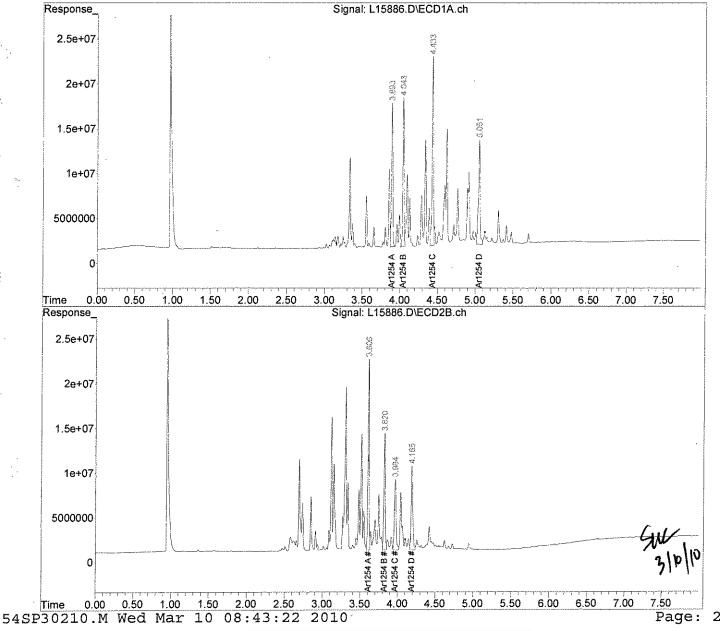
QLast Update : Mon Mar 08 18:20:16 2010

SResponse via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase: Signal #2 Phase: Signal #1 Info: Signal #2 Info:







CLIENT SAMPLE ID

Project Name:

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

PTC-CBC-1212-0395

March 9, 2010 SAMPLE DATA

Lab Sample ID:

65968-18

Matrix:

Solid

Percent Solid:

98

**Dilution Factor:** 

203

**Collection Date:** 

03/01/10

Lab Receipt Date:

03/02/10

**Extraction Date:** 

03/03/10

03/05/10 Analysis Date:

PCB	ANALY	TICAL	RESULTS

COMPOUND	Quanti <b>t</b> ation Limit µg/kg	Results µg/kg
PCB-1016	6700	U
PCB-1221	6700	U
PCB-1232	6700	U
PCB-1242	6700	U
PCB-1248	6700	U
PCB-1254	6700	108000
PCB-1260	6700	U

### Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene

%

Decachlorobiphenyl

%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

Results are expressed on a dry weight basis.

\* The surrogates were diluted out.

PCB Report

# PCB COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M

SDG: 65968

GC Column #1: STX-CLPesticides I

Sample: 65968-18,1:20

Column ID: 0.25 mm

Data File: M22797.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 203.1

Column ID: 0.25 mm

Column #1

Column #2

COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	105651	107504	1.7	

# Column to be used to flag RPD values greater than QC limit of 40%

\* Values outside QC limits

Comments:	

Data Path : C:\msdchem\1\DATA\030510-M\

5 Data File : M22797.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 5 Mar 2010 6:38 pm

Operator : RM

Sample : 65968-18,1:20 Misc : SOIL,,50ML FV

ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 09 09:54:36 2010

Quant Method: C:\msdchem\1\METHODS\54SP020410.M

Quant Title :

QLast Update : Fri Feb 05 08:08:17 2010

Response via : Initial Calibration

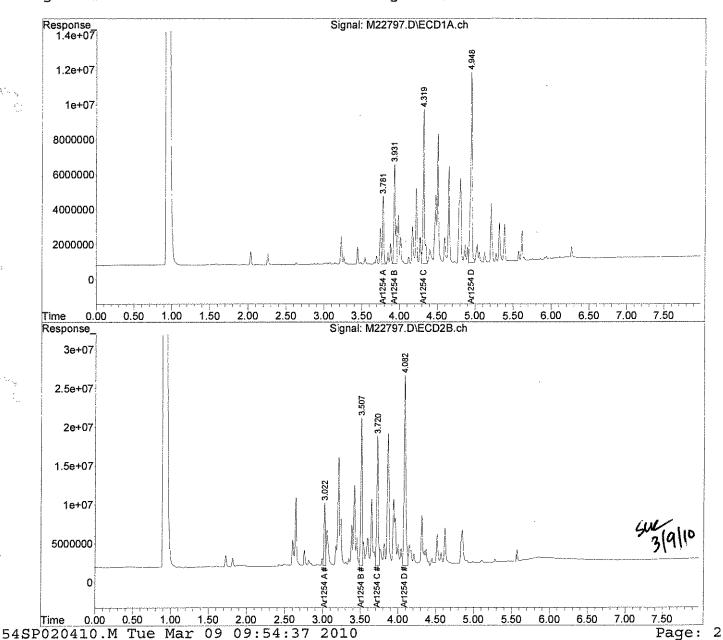
Integrator: ChemStation

Volume Inj. :

5 Signal #1 Phase : Signal #1 Info : Signal #2 Phase:

Signal #2 Info :

13.04.10



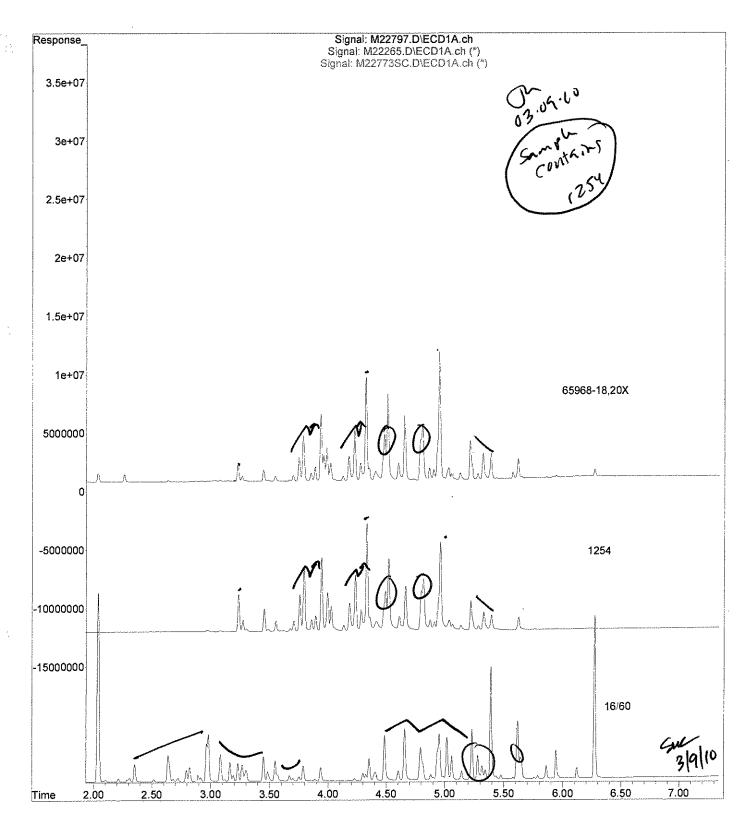
File :C:\msdchem\1\DATA\030510-M\M22797.D

Operator : RM

Acquired : 5 Mar 2010 6:38 pm using AcqMethod PCB.M

Instrument : Instrument M
Sample Name: 65968-18,1:20
Misc Info : SOIL,,50ML FV

Vial Number: 17







## CLIENT SAMPLE ID

Project Name:

Peabody Terrace

Project Number:

210980

Field Sample ID:

PTC-CBC-1212-0396

March 9, 2010

## SAMPLE DATA

Lab Sample ID:

65968-19

Matrix:

Solid

Percent Solid:

99

**Dilution Factor:** 

10

Collection Date:

03/01/10

Lab Receipt Date:

03/02/10

**Extraction Date:** 

03/03/10

Analysis Date:

03/04/10

PCB	ANALY	TICAL	RESULTS

COMPOUND	Quantitation Limit µg/kg	Results μg/kg
PCB-1016	330	U
PCB-1221	330	U
PCB-1232	330	U
PCB-1242	330	U
PCB-1248	330	U
PCB-1254	330	U
PCB-1260	330	U

## Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene

91 %

Decachlorobiphenyl

69 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Data Path: C:\msdchem\1\DATA\030410-M\

Data File: M22730.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

6:55 pm 4 Mar 2010 Acq On

: RM Operator

: 65968-19 Sample

Misc : SOIL, 50ML FV

ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 05 09:17:55 2010

Quant Method : C:\msdchem\1\METHODS\PCB020410.M

Quant Title : Aroclor 1016/1260

QLast Update : Thu Feb 04 11:18:55 2010

Response via : Initial Calibration

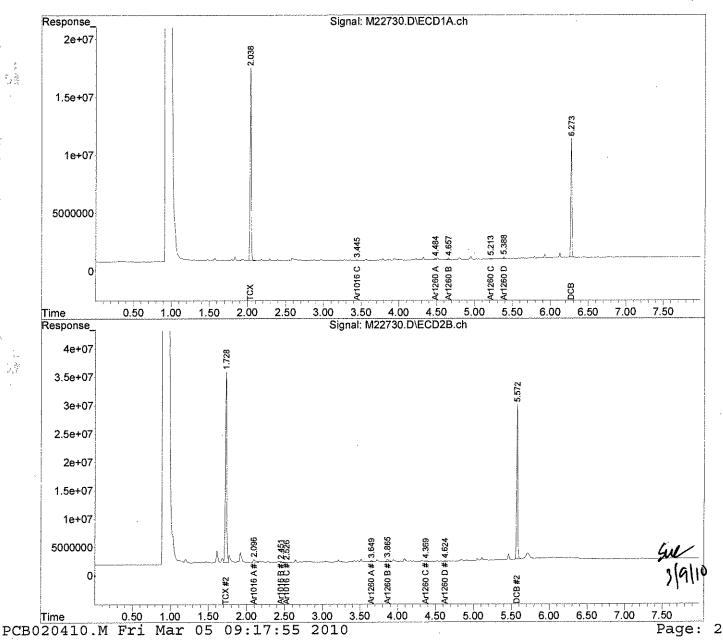
Integrator: ChemStation

Volume Inj.

Signal #1 Phase : Signal #1 Info

Signal #2 Phase:

Signal #2 Info :





Peabody Terrace

PTC-CBC-1212-0397

210980

Ms. Amy Wallace Woodard & Curran 35 NE Business Center Suite 180 Andover MA 01810

Project Name:

**Project Number:** 

Field Sample ID:

CLIENT SAMPLE ID

March 9, 2010 SAMPLE DATA

Lab Sample ID:

65968-20

Matrix:

Solid

Percent Solid:

98

101

**Dilution Factor:** 

03/01/10

**Collection Date:** Lab Receipt Date:

03/02/10

**Extraction Date:** 

03/03/10

Analysis Date:

03/05/10

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit μg/kg	Results μg/kg
PCB-1016	3330	U
PCB-1221	3330	U
PCB-1232	3330	U
PCB-1242	3330	U
PCB-1248	3330	U
PCB-1254	3330	83900
PCB-1260	3330	U

### Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene

118 %

Decachlorobiphenyl

85 %

U=Undetected J=Estimated E=Exceeds Calibration Range

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

## PCB COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M

SDG: 65968

GC Column #1: STX-CLPesticides I

Sample: 65968-20,1:10

Column ID: 0.25 mm

Data File: M22792.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 101.3

Column ID: 0.25 mm

Column #1

Column #2

COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	83296	83916	0.7	

- # Column to be used to flag RPD values greater than QC limit of 40%
- \* Values outside QC limits

Comments:					
	 	_	 	 	

Data Path : C:\msdchem\1\DATA\030510-M\

Data File: M22792.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 5 Mar 2010 5:47 pm

Operator : RM

Sample : 65968-20,1:10 Misc : SOIL,, 50ML FV

ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 09 08:51:30 2010

Quant Method: C:\msdchem\1\METHODS\54SP020410.M

Quant Title :

QLast Update : Fri Feb 05 08:08:17 2010

5. Response via : Initial Calibration

Integrator: ChemStation

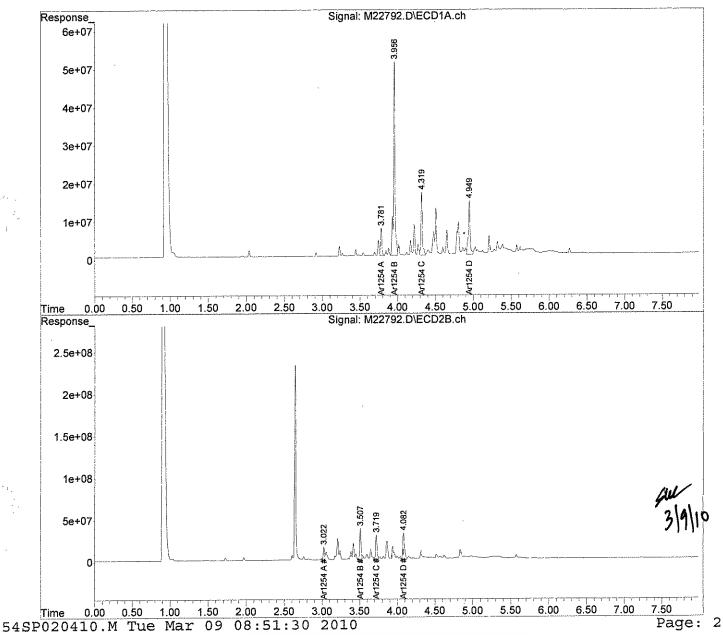
Volume Inj.

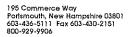
Signal #1 Phase : Signal #1 Info :

Signal #2 Phase:

Signal #2 Info:

12-04-10







Peabody Terrace

PTC-CBC-1212-0398

210980

Ms. Amy Wallace Woodard & Curran 35 NE Business Center Suite 180 Andover MA 01810

Project Name:

**Project Number:** 

Field Sample ID:

CLIENT SAMPLE ID

March 9, 2010 SAMPLE DATA

Lab Sample ID:

65968-21

Matrix:

Solid

Percent Solid:

98 10

Dilution Factor:

03/01/10

Collection Date: Lab Receipt Date:

03/02/10

**Extraction Date:** 

03/03/10

Analysis Date:

03/04/10

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit $\mu g/kg$	Results μg/kg
PCB-1016	330	U
PCB-1221	330	U
PCB-1232	330	U
PCB-1242	330	U
PCB-1248	330	U
PCB-1254	330	U
PCB-1260	330	U

## Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene

91 %

Decachlorobiphenyl

67 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Data Path : C:\msdchem\1\DATA\030410-M\

Data File : M22732.D

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

4 Mar 2010 Acq On 7:15 pm

: RM Operator

Sample : 65968-21

Misc : SOIL, 50ML FV

SAALS Vial Sample Multiplier: 1 : 8

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 05 09:17:59 2010

Quant Method : C:\msdchem\1\METHODS\PCB020410.M

Quant Title : Aroclor 1016/1260

QLast Update: Thu Feb 04 11:18:55 2010 Response via: Initial Calibration

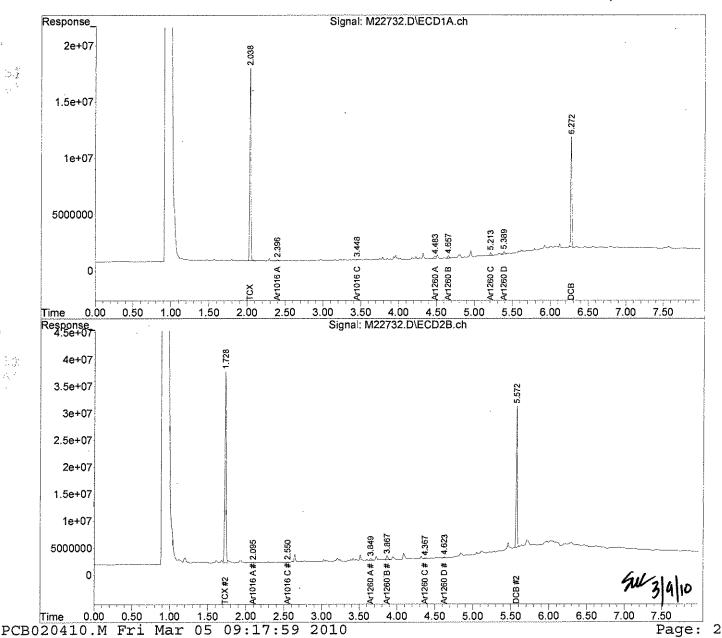
Integrator: ChemStation

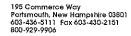
Volume Inj.

Signal #1 Phase : Signal #1 Info

Signal #2 Phase:

Signal #2 Info :







CLIENT SAMPLE ID

SAMPLE DATA

**Project Name:** 

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

PTC-CBC-1212-0399

Lab Sample ID: 65968-22 Matrix: Solid Percent Solid: 98 **Dilution Factor:** 10 **Collection Date:** 03/01/10 Lab Receipt Date: 03/02/10 **Extraction Date:** 

03/03/10

March 9, 2010

**Analysis Date:** 03/04/10

PCB ANALYTICAL RESULTS				
COMPOUND	Quantitation Limìt $\mu$ g/kg	Results μg/kg		
PCB-1016	330	U		
PCB-1221	330	U		
PCB-1232	330	U		
PCB-1242	330	U		
PCB-1248	330	Ŭ		
PCB-1254	330	Ü		
PCB-1260	330	U		
	Surrogate Standard Recovery	,		
	2,4,5,6-Tetrachloro-m-xylene 89 Decachlorobiphenyl 68	%		
U=Undetected J=Est	imated E=Exceeds Calibration Range	B=Detected in		

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

#### Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\030410-M\

Data File: M22733.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On 4 Mar 2010 7:25 pm

Operator : RM

Sample 65968-22

: SOIL, 50ML FV Misc

ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 05 09:18:01 2010

Quant Method : C:\msdchem\1\METHODS\PCB020410.M

Quant Title : Aroclor 1016/1260

QLast Update : Thu Feb 04 11:18:55 2010

Response via : Initial Calibration

Integrator: ChemStation

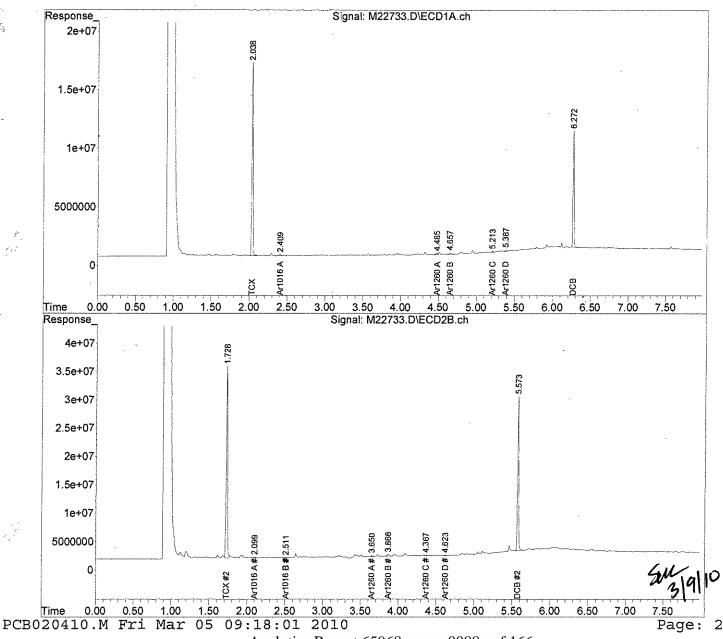
Volume Inj. Signal #1 Phase :

Signal #1 Info

75

Signal #2 Phase:

Signal #2 Info:



Analytics Report 65968 page 0088 of 166



## CLIENT SAMPLE ID

**Project Name:** 

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

PTX-CBCQ-1012-0400

## March 9, 2010 SAMPLE DATA

Lab Sample ID:

65968-23

Matrix:

Aqueous

Percent Solid:

N/A

**Dilution Factor:** 

1.0

03/01/10

**Collection Date:** Lab Receipt Date:

03/02/10

**Extraction Date:** 

03/08/10

Analysis Date:

03/08/10

### PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/L	Results $\mu g/L$
PCB-1016	0.2	U
PCB-1221	0.2	U <sub>,</sub>
PCB-1232	0.2	U
PCB-1242	0.2	U
PCB-1248	0.2	U
PCB-1254	0.2	U
PCB-1260	0.2	U
		·

## Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene

61 %

Decachlorobiphenyl

21\* %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

COMMENTS:

\* Surrogate recovery outside control limits; confirmed by reinjection.

PCB Report

Data Path : C:\msdchem\1\DATA\030810-L\

Data File: L15822.D

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On 8 Mar 10 : 3:50 pm

Operator : MG

Sample 65968-23

Misc

ALS Vial Sample Multiplier: 1 : 16

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: Mar 08 15:59:51 2010

Quant Method : C:\msdchem\1\METHODS\PB030210.M

Quant Title : Aroclor 1016/1260

QLast Update: Wed Mar 03 10:27:55 2010 Response via: Initial Calibration

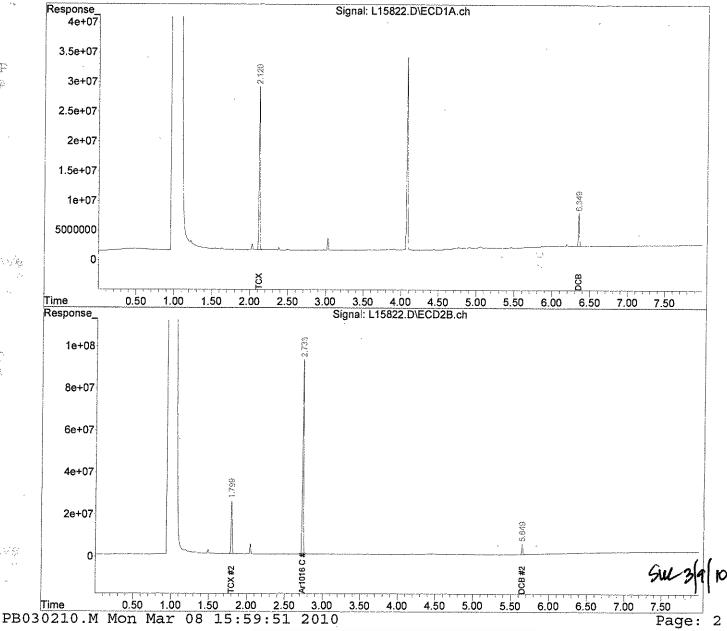
Integrator: ChemStation

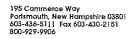
Volume Inj. : 3 ul

Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore

Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um film

53810







## March 9, 2010 SAMPLE DATA

Lab Sample ID:

65968-24

Matrix:

Solid

Percent Solid:

96

Dilution Factor:

10

**Collection Date:** 

03/01/10

Lab Receipt Date: **Extraction Date:** 

03/02/10 03/03/10

**Analysis Date:** 

03/04/10

## CLIENT SAMPLE ID

Project Name:

Peabody Terrace

Project Number:

210980

Field Sample ID:

PTX-CBC-111103-0401

PCB ANALYTICAL RESULTS				
COMPOUND	Quantitation Limit $\mu g/kg$	Results $\mu g/kg$		
PCB-1016	330	U		
PCB-1221	330	U		
PCB-1232	330	U		
PCB-1242	330	U		
PCB-1248	330	Ù		
PCB-1254	330	U		
PCB-1260	330	9590		
·- ·				
	Surrogate Standard Recovery			
. 2	,4,5,6-Tetrachloro-m-xylene 88	%		
•	Decachlorobiphenyl 69	%		

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

## PCB COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M

SDG: 65968

GC Column #1: STX-CLPesticides I

Sample: 65968-24

Column ID: 0.25 mm

Data File: M22734.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 10.3

Column ID: 0.25 mm

Column #1

Column #2

COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1260	9325	9592	2.8	

- # Column to be used to flag RPD values greater than QC limit of 40%
- \* Values outside QC limits

Comments:

Data Path : C:\msdchem\1\DATA\030410-M\

Data File: M22734.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 4 Mar 2010 7:35 pm

Operator : RM

Sample : 65968-24 Misc : SOIL, 50ML FV

ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Sa Quant Time: Mar 05 09:18:03 2010

PCPQuant Method: C:\msdchem\1\METHODS\PCB020410.M

A Quant Title : Aroclor 1016/1260

QLast Update : Thu Feb 04 11:18:55 2010

Response via : Initial Calibration

Integrator: ChemStation

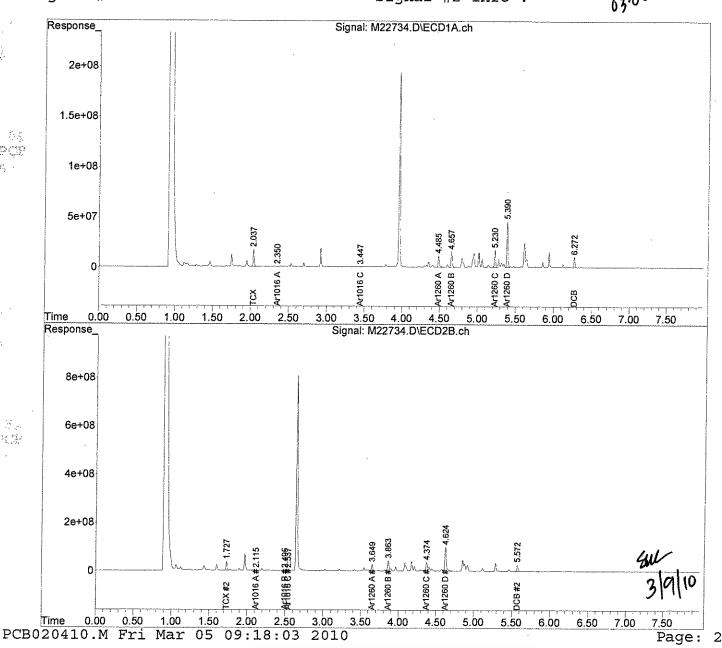
Volume Inj.

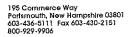
Signal #1 Phase : Signal #1 Info :

Signal #2 Phase:

Signal #2 Info :

03.04.10







CLIENT SAMPLE ID

**Project Name:** 

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

PTX-CBC-111103-0402

March 10, 2010

SAMPLE DATA

Lab Sample ID:

65968-25 RX

Matrix:

Solid

Percent Solid:

97

**Dilution Factor:** 

10

**Collection Date:** 

03/01/10 03/02/10

Lab Receipt Date: **Extraction Date:** 

03/09/10

Analysis Date:

03/10/10

PCB ANALYTICAL RESULTS				
COMPOUND	Quantitation Limit μg/kg	Results μg/kg		
PCB-1016	330	U		
PCB-1221	330	U		
PCB-1232	330	U		
PCB-1242	330	U		
PCB-1248	330	U		
PCB-1254	330	U		
PCB-1260	330	830		
	Surrogate Standard Recovery			
	2,4,5,6-Tetrachloro-m-xylene 83  Decachlorobiphenyl 66	% %		
U=Undetected J=	Estimated E=Exceeds Calibration Range	B=Detected in		

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

Results are expressed on a dry weight basis.

PCB Report

Authorized signature ## Authorized signature

## **PCB** COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L

SDG:

GC Column #1: STX-CLPesticides I

Sample: 65968-25 RX

Column ID: 0.25 mm

Data File: L15907.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 10.2

Column ID: 0.25 mm

Column #1

Column #2

COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1260	830	704	16.5	

# Column to be used to flag RPD values greater than QC limit of 40%

\* Values outside QC limits

Comments:		

Data Path : C:\msdchem\1\DATA\030910-L\

Data File: L15907.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 10 Mar 10 9:41 am

Operator : MG

Sample 65968-25 RX

Misc

10.73

ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: Mar 10 10:45:37 2010

Quant Method: C:\msdchem\1\METHODS\PB030210.M

Quant Title : Aroclor 1016/1260

QLast Update : Wed Mar 03 10:27:55 2010

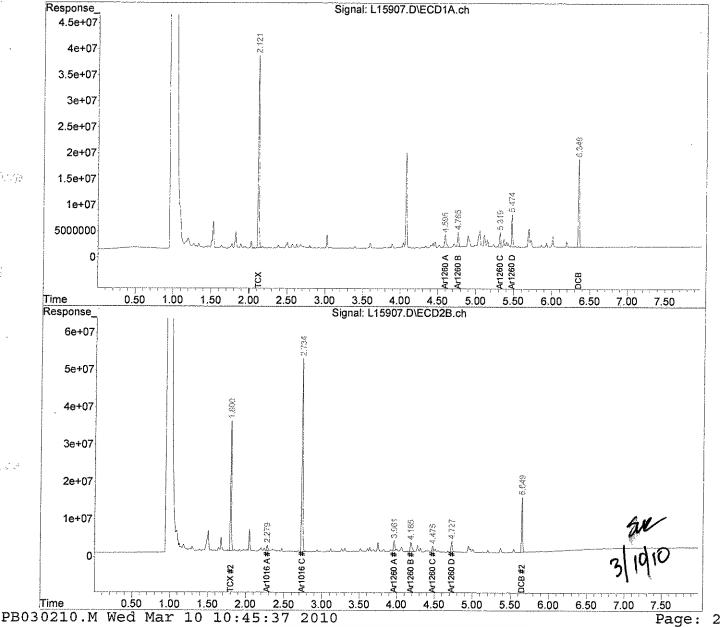
Response via : Initial Calibration

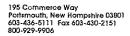
Integrator: ChemStation

Volume Inj. : 3 ul

Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore

Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um film







Peabody Terrace

PTX-CBK-111103-0403

210980

Ms. Amy Wallace Woodard & Curran 35 NE Business Center Suite 180 Andover MA 01810

Project Name:

**Project Number:** 

Field Sample ID:

CLIENT SAMPLE ID

March 10, 2010

## SAMPLE DATA

Lab Sample ID:

Matrix:

65968-26 Solid

Percent Solid:

99

Dilution Factor:

189000

**Collection Date:** 

03/01/10

Lab Receipt Date: **Extraction Date:** 

03/02/10

03/03/10

Analysis Date:

03/10/10

## PCB ANALYTICAL RESULTS

СОМРО	Quantitation Limit μg/kg	Results μg/kg
PCB-1016	6237000	Ŭ
PCB-1221	6237000	U
PCB-1232	6237000	Ū
PCB-1242	6237000	U
PCB-1248	6237000	U
PCB-1254	6237000	73600000
PCB-1260	6237000	U

### Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene

%

Decachlorobiphenyl

%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.

\* The surrogates were diluted out.

PCB Report

## PCB COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L

SDG:

GC Column #1: STX-CLPesticides I

Sample: 65968-26, 1:20000

Column ID: 0.25 mm

Data File: L15911.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 188994.8

Column ID: 0.25 mm

Column #1

Column #2

COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	66656823	73584948	9.9	``

- # Column to be used to flag RPD values greater than QC limit of 40%
- \* Values outside QC limits

Comments:	

#### Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\030910-L\

Data File: L15911.D

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 10 Mar 10 11:57 am

Operator : MG

Sample : 65968-26, 1:20000

Misc

27.8

ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 10 12:37:54 2010

Quant Method: C:\msdchem\1\METHODS\54SP30210.M

Quant Title

QLast Update : Mon Mar 08 18:20:16 2010

Response via: Initial Calibration

Integrator: ChemStation

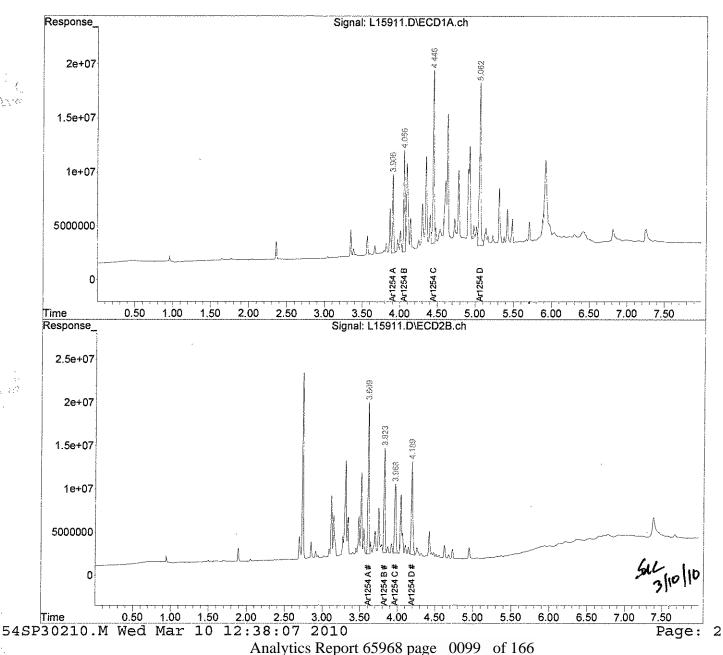
Volume Inj.

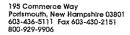
Signal #1 Phase : Signal #1 Info

Signal #2 Phase:

73.1010

Signal #2 Info :







#### CLIENT SAMPLE ID

**Project Name:** 

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

PTX-CBK-111103-0404

March 10, 2010

### SAMPLE DATA

Lab Sample ID:

65968-27

Matrix:

Solid

Percent Solid:

99

**Dilution Factor:** 

2890

**Collection Date:** 

03/01/10 03/02/10

Lab Receipt Date: **Extraction Date:** 

03/04/10

Analysis Date:

03/09/10

PCB	ANALYTICAL RESULTS

COMPOUND	Quantitation Limit $\mu$ g/kg	Results μg/kg
PCB-1016	95400	U
PCB-1221	95400	U
PCB-1232	95400	U
PCB-1242	95400	U
PCB-1248	95400	Ŭ
PCB-1254	95400	1600000
PCB-1260	95400	U

#### Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene

%

Decachlorobiphenyl

%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.

\* The surrogates were diluted out.

PCB Report

Authorized signature

# PCB COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L

SDG:

GC Column #1: STX-CLPesticides I

Sample: 65968-27, 1:400

Column ID: 0.25 mm

Data File: L15889.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 2892.4

Column ID: 0.25 mm

Column #1

Column #2

COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	1236569	1602474	25.8	

# Column to be used to flag RPD values greater than QC limit of 40%

\* Values outside QC limits

Comments:		

Data Path : C:\msdchem\1\DATA\030910-L\

🕬 Data File : L15889.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On 9 Mar 10 6:28 pm

Operator : MG

Sample 65968<del>-4</del>, 1:400 Misc 23 10.10

ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 10 08:44:50 2010

Quant Method : C:\msdchem\1\METHODS\54SP30210.M

Quant Title

QLast Update : Mon Mar 08 18:20:16 2010

Response via : Initial Calibration

Integrator: ChemStation

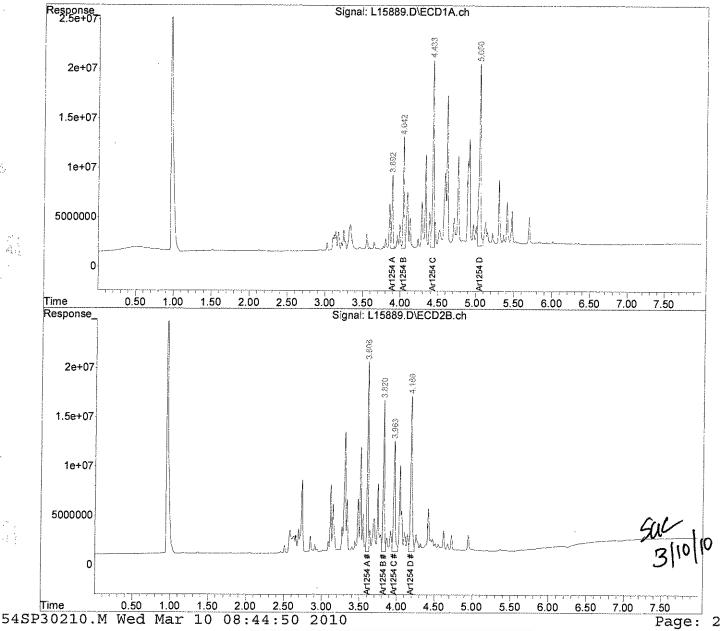
✓ Volume Inj.

Signal #1 Phase :

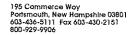
Signal #2 Phase:

23.10.10

Signal #1 Info Signal #2 Info :



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CLIENT SAMPLE ID

**Project Name:** 

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

PTX-CBK-111103-0405

March 9, 2010

SAMPLE DATA

Lab Sample ID:

65968-28

Matrix:

Solid

Percent Solid:

98

Dilution Factor:

98 94

**Collection Date:** 

03/01/10

Lab Receipt Date:

03/02/10

**Extraction Date:** 

03/04/10

**Analysis Date:** 

03/08/10

PCB	ANAL	TICAL	RESULTS
-----	------	-------	---------

	COMPOUND	Quantitation Limit $\mu g/kg$	Results 'µg/kg
	PCB-1016	3100	U
	PCB-1221	3100	U
	PCB-1232	3100	U
	PCB-1242	3100	U
	PCB-1248	3100	U
	PCB-1254	3100	58800
-	PCB-1260	3100	U
١			

### Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene

90

%

Decachlorobiphenyl

192\* %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

Results are expressed on a dry weight basis.

\* Surrogate recovery affected by sample matrix.

PCB Report

Authorized signature

Stelle

# PCB COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L

SDG:

GC Column #1: STX-CLPesticides I

Sample: 65968-28,1:10

Column ID: 0.25 mm

Data File: L15838.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 94.0

Column ID: 0.25 mm

Column #1

Column #2

COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	58751	22288	90.0	*

- # Column to be used to flag RPD values greater than QC limit of 40%
- \* Values outside QC limits

Comments:			
Commons.			

Data Path : C:\msdchem\1\DATA\030810-L\

Data File: L15838.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

8 Mar 10 Acq On 11:15 pm

Operator : MG

: 65968-28,1:10 Sample

Misc

Sample Multiplier: 1 ALS Vial : 26

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 09 07:38:54 2010

Quant Method: C:\msdchem\1\METHODS\54SP30210.M

Quant Title

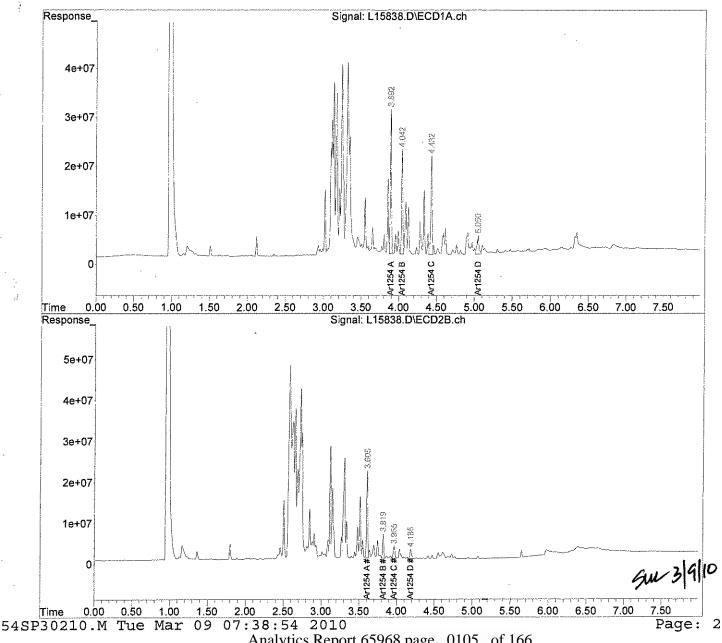
QLast Update : Mon Mar 08 18:20:16 2010

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase : Signal #2 Phase: Signal #1 Info Signal #2 Info :



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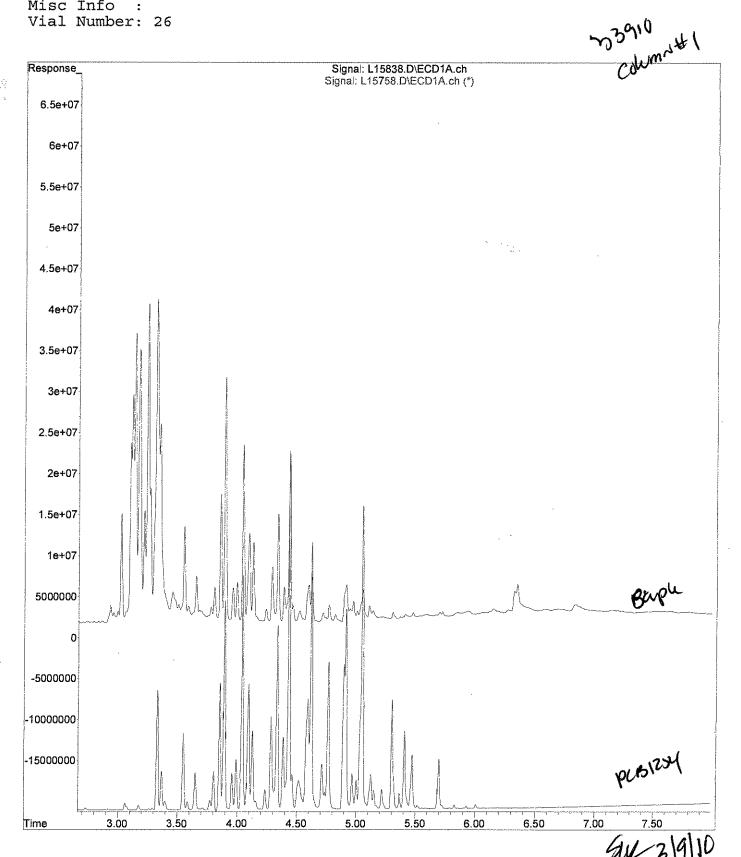
:C:\msdchem\1\DATA\030810-L\L15838.D File

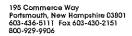
Operator

Acquired 11:15 pm using AcqMethod PEST.M 8 Mar 10

Instrument : Inst L Sample Name: 65968-28,1:10

Misc Info Vial Number: 26







CLIENT SAMPLE ID

**Project Name:** 

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

PTX-CBK-111103-0406

March 9, 2010 SAMPLE DATA

Lab Sample ID:

65968-29

Matrix:

Solid

Percent Solid:

99 71

**Dilution Factor:** 

03/01/10

Collection Date: Lab Receipt Date:

03/02/10

**Extraction Date:** 

03/04/10

**Analysis Date:** 

03/08/10

PCB ANALYTICAL RESULTS		
COMPOUND	Quantitation Limit $\mu$ g/kg	Results μg/kg
PCB-1016 ,	2340	U
PCB-1221	2340	U
PCB-1232	2340	U
PCB-1242	2340	U
PCB-1248	2340	U
PCB-1254	2340	38300
PCB-1260	2340	U
		,
<u>s</u>	urrogate Standard Recovery	
2,4,	5,6-Tetrachloro-m-xylene 88 %	
	Decachlorobiphenyl 272* %	

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

Results are expressed on a dry weight basis.

\* Surrogate recovery affected by sample matrix.

PCB Report

Authorized signature

# PCB COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L

SDG:

GC Column #1: STX-CLPesticides I

Sample: 65968-29, 1:10

Column ID: 0.25 mm

Data File: L15839.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 70.9

Column ID: 0.25 mm

Column #1

Column #2

-			l	
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	38340	19727	64,1	*

- # Column to be used to flag RPD values greater than QC limit of 40%
- \* Values outside QC limits

Comments:	

Data Path : C:\msdchem\1\DATA\030810-L\

Data File: L15839.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 8 Mar 10 11:25 pm

Operator : MG

Sample : 65968-29, 1:10

Misc

ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 09 07:39:23 2010

Quant Method: C:\msdchem\1\METHODS\54SP30210.M

Quant Title :

QLast Update : Mon Mar 08 18:20:16 2010

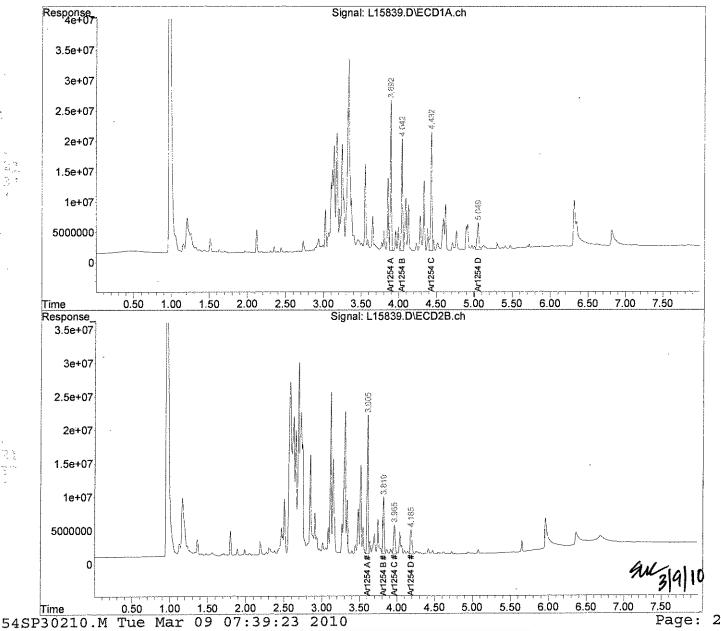
Response via : Initial Calibration

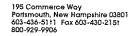
Integrator: ChemStation

Volume Inj.

Signal #1 Phase : Signal #1 Info :

Signal #2 Phase: Signal #2 Info: 3391D







## CLIENT SAMPLE ID

Project Name:

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

PTX-CBK-111103-0407

### March 9, 2010 SAMPLE DATA

Lab Sample ID:

65968-30

Matrix:

Solid

Percent Solid:

99

**Dilution Factor:** 

445

**Collection Date:** 

03/01/10

Lab Receipt Date:

03/02/10

**Extraction Date:** 

03/04/10

Analysis Date:

03/08/10

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	14700	U
PCB-1221	14700	U
PCB-1232	14700	U
PCB-1242	14700	U
PCB-1248	14700	U
PCB-1254	14700	218000
PCB-1260	14700	U

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

2,4,5,6-Tetrachloro-m-xylene

Decachlorobiphenyl

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

J=Estimated E=Exceeds Calibration Range B=Detected in

COMMENTS:

Results are expressed on a dry weight basis.

\* The surrogates were diluted out.

U=Undetected

PCB Report

%

%

Authorized signature

## PCB COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L

SDG:

1:50

GC Column #1: STX-CLPesticides I

Sample: 65968-30, 1:10 53-9-10

Column ID: 0.25 mm

Data File: L15840.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 444.9

Column ID: 0.25 mm

Column #1

Column #2

COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	217585	99381	74.6	*

- # Column to be used to flag RPD values greater than QC limit of 40%
- \* Values outside QC limits

Comments:	

### Quantitation Report (Not Reviewed)

Data Path: C:\msdchem\1\DATA\030810-L\

Data File: L15840.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acg On : 8 Mar 10 11:36 pm

Operator : MG

Sample : 65968-30, 1:#6,39.10

Misc :

ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 09 07:39:50 2010

Quant Method: C:\msdchem\1\METHODS\54SP30210.M

Quant Title :

QLast Update : Mon Mar 08 18:20:16 2010

Response via : Initial Calibration

Integrator: ChemStation

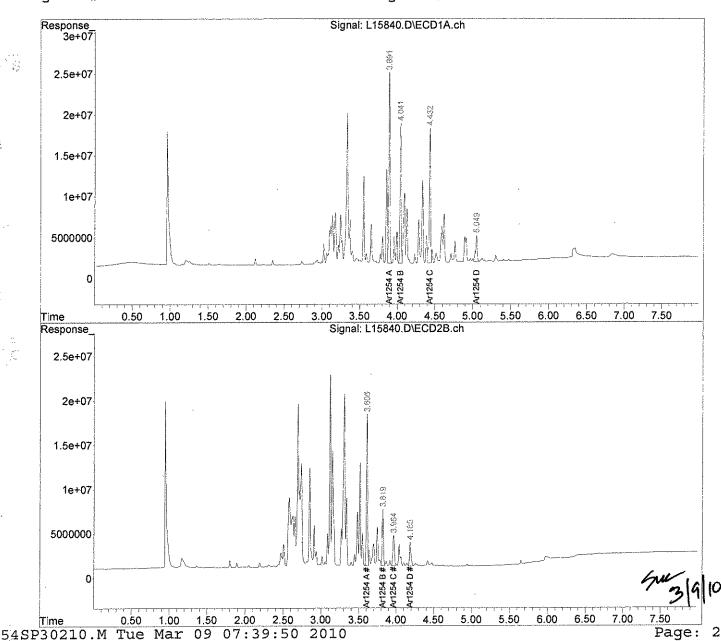
Volume Inj.

Signal #1 Phase : Signal #1 Info :

Signal #2 Phase:

5<sup>3.9.10</sup>

Signal #2 Info:



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File :C:\msdchem\1\DATA\030810-L\L15840.D

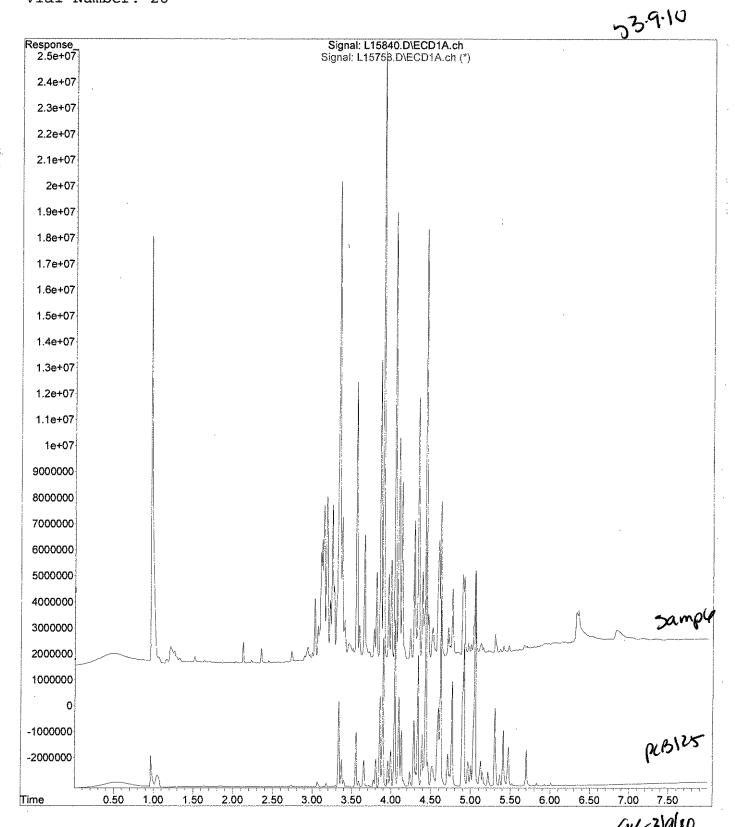
Operator : MG

Acquired : 8 Mar 10 11:36 pm using AcqMethod PEST.M

Instrument : Inst L

Sample Name: 65968-30, 1:10 1:50 Misc Info : 539:10

Vial Number: 28





### **CLIENT SAMPLE ID**

**Project Name:** 

Peabody Terrace

Project Number:

210980

Field Sample ID:

PTX-CWKQ-111103-0408

March 9, 2010 SAMPLE DATA

Lab Sample ID:

65968-31

Matrix:

Aqueous

Percent Solid:

N/A

**Dilution Factor:** 

1.0

**Collection Date:** 

03/01/10

Lab Receipt Date: **Extraction Date:** 

03/02/10

**Analysis Date:** 

03/08/10

03/08/10

PCB ANALYTICAL RESULTS						
COMPOUND	Quantitation Limit µg/L	Results μg/L				
PCB-1016	0.2	U				
PCB-1221	0.2	U				
PCB-1232	0.2	U				
PCB-1242	0.2	U				
PCB-1248	0.2	U				
PCB-1254	0.2	U				
PCB-1260	0.2	U				
	Surrogate Standard Recovery	· · · · · · · · · · · · · · · · · · ·				
	2,4,5,6-Tetrachloro-m-xylene 78  Decachlorobiphenyl 46	% %				
U=Undetected	J=Estimated E=Exceeds Calibration Range	B=Detected in				

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

COMMENTS:

PCB Report

Authorized signature

Data Path : C:\msdchem\1\DATA\030810-L\

Data File: L15823.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 8 Mar 10 4:01 pm

Operator : MG

Sample : 65968-31

Misc

ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: Mar 08 22:33:12 2010

Quant Method : C:\msdchem\1\METHODS\PB030210.M

Quant Title : Aroclor 1016/1260

QLast Update : Wed Mar 03 10:27:55 2010

Response via: Initial Calibration

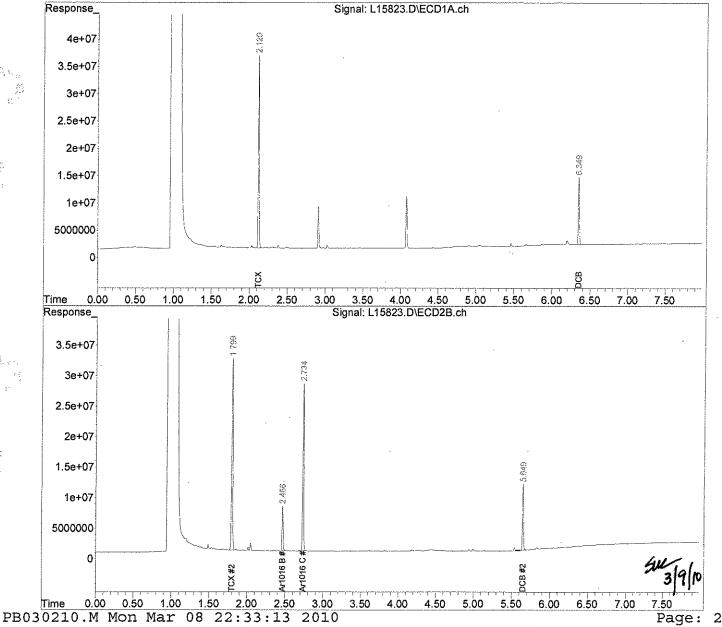
Integrator: ChemStation

Volume Inj. : 3 ul

Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore

Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um film

73.8.10





**CLIENT SAMPLE ID** 

Project Name:

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

PTX-CWK-111103-0409

March 9, 2010 SAMPLE DATA

Lab Sample ID:

65968-32

Matrix:

Wipe

Percent Solid:

N/A 1.0

Dilution Factor:

03/01/10

**Collection Date:** Lab Receipt Date:

03/02/10

**Extraction Date:** 

03/02/10

**Analysis Date:** 

03/04/10

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results μg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	Ū .
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

### Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene

98

%

Decachlorobiphenyl

77 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report

Authorized signature

Data Path: C:\msdchem\1\DATA\030410-M\

Data File: M22686.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

4 Mar 2010 9:30 am Acq On

Operator : RM

Sample 65968-32,,A/C

SOIL Misc

Sample Multiplier: 1 ALS Vial : 62

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 04 11:08:12 2010

Quant Method : C:\msdchem\1\METHODS\PCB020410.M

Quant Title : Aroclor 1016/1260

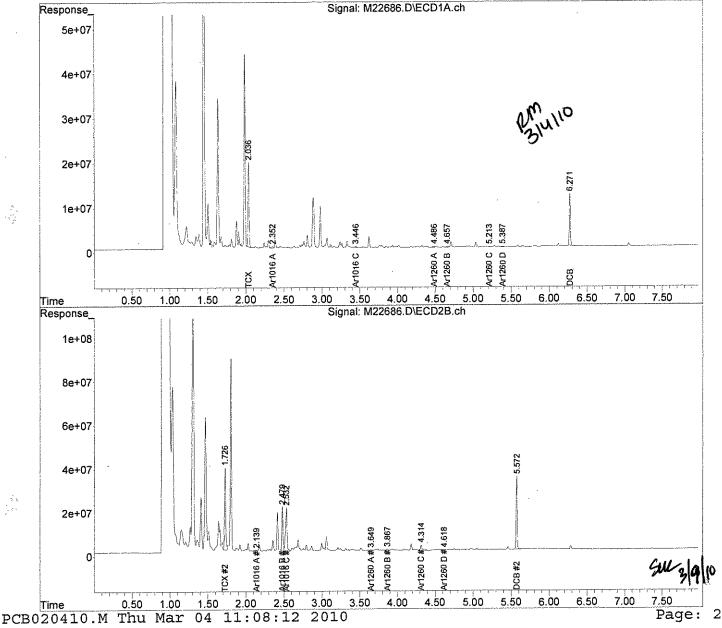
QLast Update : Thu Feb 04 11:18:55 2010 Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase : Signal #1 Info

Signal #2 Phase: Signal #2 Info :



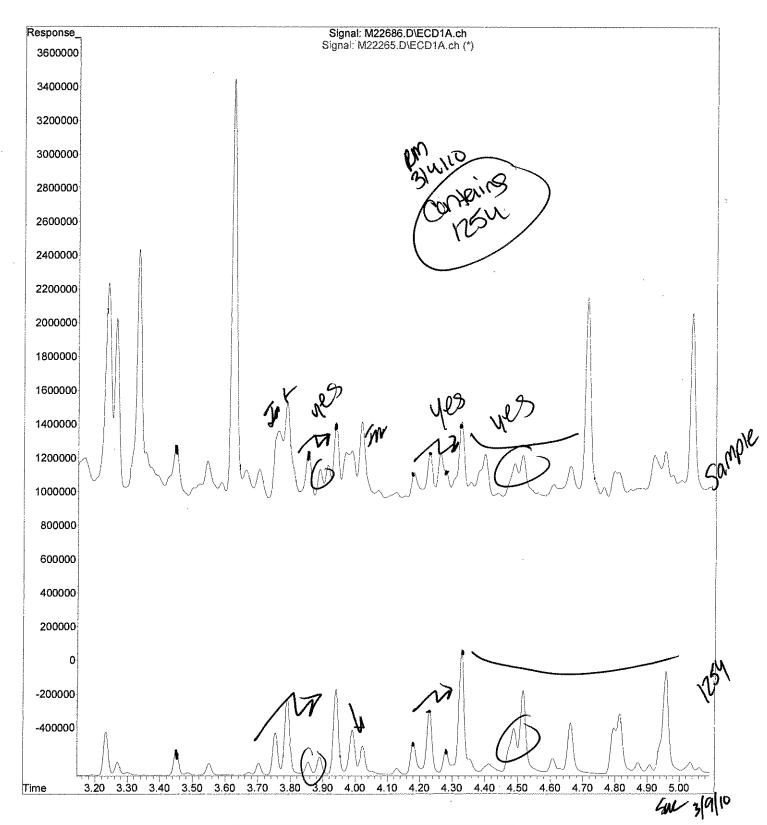
File :C:\msdchem\1\DATA\030410-M\M22686.D

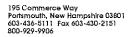
Operator : RM

Acquired : 4 Mar 2010 9:30 am using AcqMethod PCB.M

Instrument : Instrument M
Sample Name: 65968-32,,A/C

Misc Info : SOIL Vial Number: 62







Peabody Terrace

PTX-CWK-111103-0410

210980

Ms. Amy Wallace Woodard & Curran 35 NE Business Center Suite 180 Andover MA 01810

**Project Name:** 

**Project Number:** 

Field Sample ID:

CLIENT SAMPLE ID

March 9, 2010 SAMPLE DATA

Lab Sample ID:

65968-33

Matrix:

Wipe

N/A

Percent Solid: Dilution Factor:

1.0

**Collection Date:** 

03/01/10

Lab Receipt Date:

03/02/10

**Extraction Date:** 

03/02/10

Analysis Date:

03/04/10


PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit ug/wìpe	Results ug/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	. U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

### Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene

93 %

Decachlorobiphenyl

%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in

75

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

COMMENTS:

PCBWipe

Authorized signature ###

Data Path : C:\msdchem\1\DATA\030410-M\

Data File: M22687.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

4 Mar 2010 Acq On 9:40 am

Operator : RM

Sample 65968-33,,A/C

Misc SOIL

Sample Multiplier: 1 ALS Vial : 63

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 04 11:08:14 2010

Quant Method : C:\msdchem\1\METHODS\PCB020410.M

Quant Title : Aroclor 1016/1260

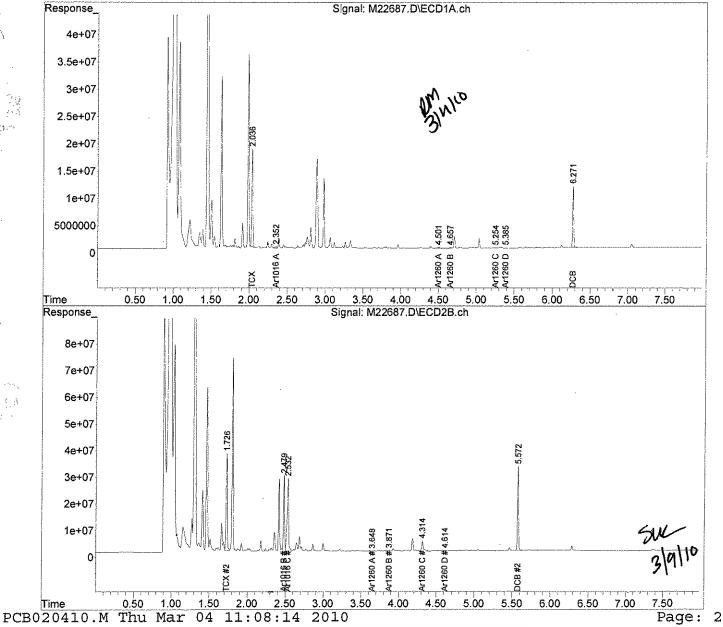
QLast Update: Thu Feb 04 11:18:55 2010 Response via: Initial Calibration

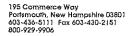
Integrator: ChemStation

Volume Inj.

()."

Signal #1 Phase : Signal #2 Phase: Signal #1 Info Signal #2 Info :







**Project Name:** 

**Project Number:** 

Field Sample ID:

CLIENT SAMPLE ID

March 9, 2010 SAMPLE DATA

65968-34

Matrix:

Wipe

Percent Solid:

Lab Sample ID:

N/A 1.0

Dilution Factor: **Collection Date:** 

03/01/10

Lab Receipt Date:

03/02/10

**Extraction Date:** 

03/02/10

Analysis Date:

03/04/10

PTX-CWK-111103-0411

Peabody Terrace

210980

	PCB ANALYTICAL RESULTS					
	COMPOUND	Quantitation Limít ug/wipe			Results ug/wipe	
7	PCB-1016	0.5			U	
	PCB-1221	0.5			U	
	PCB-1232	0.5			U	
	PCB-1242	0.5			U	
	PCB-1248	0.5			U	
	PCB-1254	0.5			6.5	
:	PCB-1260	0.5			U	
			A			
		Surrogate Standard Recover	С¥			
		2,4,5,6-Tetrachloro-m-xylene	93	%		
		Decachlorobiphenyl	76	%		

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in

COMMENTS:

**PCBWipe** 

St. Ulho Authorized signature

# PCB COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M

SDG: 65968

GC Column #1: STX-CLPesticides I

Sample: 65968-34,,A/C

Column ID: 0.25 mm

Data File: M22688.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 1.0

Column ID: 0.25 mm

Column #1

Column #2

COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	6.5	5.2	21.7	

# Column to be used to flag RPD values greater than QC limit of 40%

\* Values outside QC limits

Comments:				

Data Path : C:\msdchem\1\DATA\030410-M\

Data File: M22688.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On 4 Mar 2010 9:50 am

Operator : RM

: 65968-34,,A/C Sample

Misc : SOIL

ALS Vial : 64 Sample Multiplier: 1

54%Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 04 11:41:44 2010

Quant Method : C:\msdchem\1\METHODS\54SP020410.M

Quant Title

QLast Update : Fri Feb 05 08:08:17 2010

Response via : Initial Calibration

Integrator: ChemStation

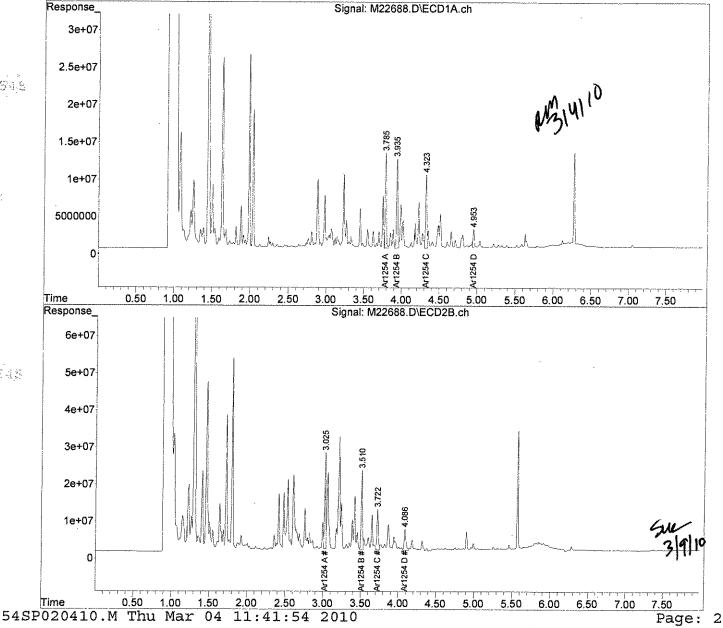
Volume Inj. Signal #1 Phase :

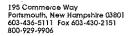
Signal #1 Info

54.5

248

Signal #2 Phase: Signal #2 Info :







Peabody Terrace

PTX-CWK-I11103-0412

210980

Ms. Amy Wallace Woodard & Curran 35 NE Business Center Suite 180 Andover MA 01810

Project Name:

**Project Number:** 

Field Sample ID:

CLIENT SAMPLE ID

March 9, 2010 SAMPLE DATA

65968-35

Matrix:

Wipe

N/A

Percent Solid: Dilution Factor:

Lab Sample ID:

1.0

Collection Date:

03/01/10

Lab Rcceipt Date:

03/02/10

**Extraction Date:** 

03/02/10

Analysis Date:

03/04/10

PCB	ANAL	YTIC	AL I	RESU	LTS

COMPOUND	Quantitation Limit ug/wipe	Results ug/wipe
PCB-1016	0.5	U
PCB-1221	0.5	Ü
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	1.9
PCB-1260	0.5	U

### Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene

94 %

Decachlorobiphenyl

78 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

COMMENTS:

PCBWipe

# PCB COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M

SDG: 65968

GC Column #1: STX-CLPesticides I

Sample: 65968-35,,A/C

Column ID: 0.25 mm

Data File: M22689.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 1.0

Column ID: 0.25 mm

Column #1

Column #2

COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	. #
PCB 1254	1.9	1.7	12.3	

# Column to be used to flag RPD values greater than QC limit of 40%

\* Values outside QC limits

Comments:	

Data Path : C:\msdchem\1\DATA\030410-M\

Data File: M22689.D

🤼 Signal(s) : Signal #1: ECD1A.ch | Signal #2: ECD2B.ch

4 Mar 2010 10:00 am Acq On

Operator : RM

Sample : 65968-35,,A/C

Misc SOIL

Sample Multiplier: 1 ALS Vial : 65

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 04 11:43:57 2010

Quant Method: C:\msdchem\1\METHODS\54SP020410.M

54 Quant Title

QLast Update : Fri Feb 05 08:08:17 2010

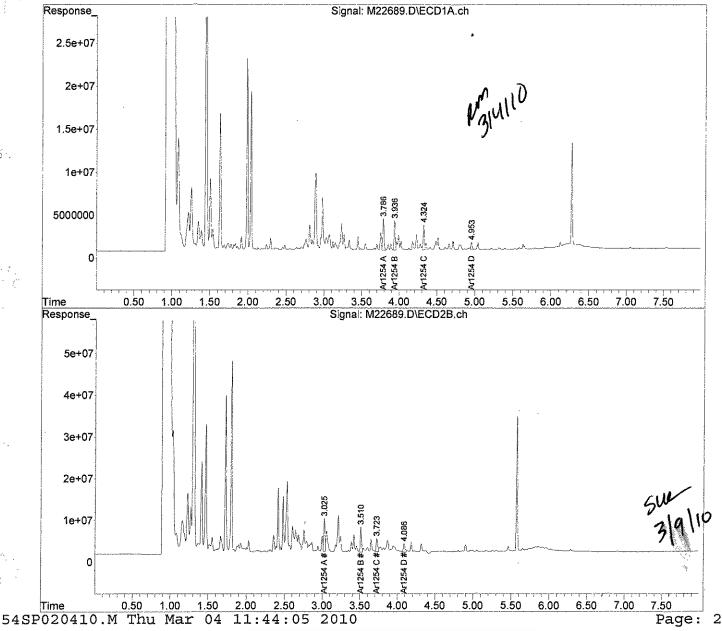
Response via : Initial Calibration

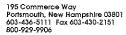
Integrator: ChemStation

Volume Inj.

5.

Signal #1 Phase : Signal #2 Phase: Signal #1 Info Signal #2 Info :







### **CLIENT SAMPLE ID**

Project Name:

Peabody Terrace

Project Number:

210980

Field Sample ID:

PTX-CWT-111103-0413

March 9, 2010

### SAMPLE DATA

Lab Sample ID:

65968-36

Matrix:

Wipe

Percent Solid:

N/A

Dilution Factor:

1.0

**Collection Date:** 

03/01/10

Lab Receipt Date: **Extraction Date:** 

03/02/10 03/02/10

Analysis Date:

03/04/10

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit ug/wipe	Results ug/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
· PCB-1242	0.5	U
PCB-1248	0.5	U ·
PCB-1254	0.5	U
PCB-1260	0.5	U

#### Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene

% 94

Decachlorobiphenyl

73 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in

METHODÓLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

COMMENTS:

**PCBWipe** 

Authorized signature

Data Path : C:\msdchem\1\DATA\030410-M\

Data File: M22690.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 4 Mar 2010 10:10 am

Operator : RM

Sample : 65968-36,,A/C

Misc : SOIL

ALS Vial : 66 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 04 11:08:20 2010

Quant Method : C:\msdchem\1\METHODS\PCB020410.M

Quant Title : Aroclor 1016/1260

QLast Update : Thu Feb 04 11:18:55 2010

Response via : Initial Calibration

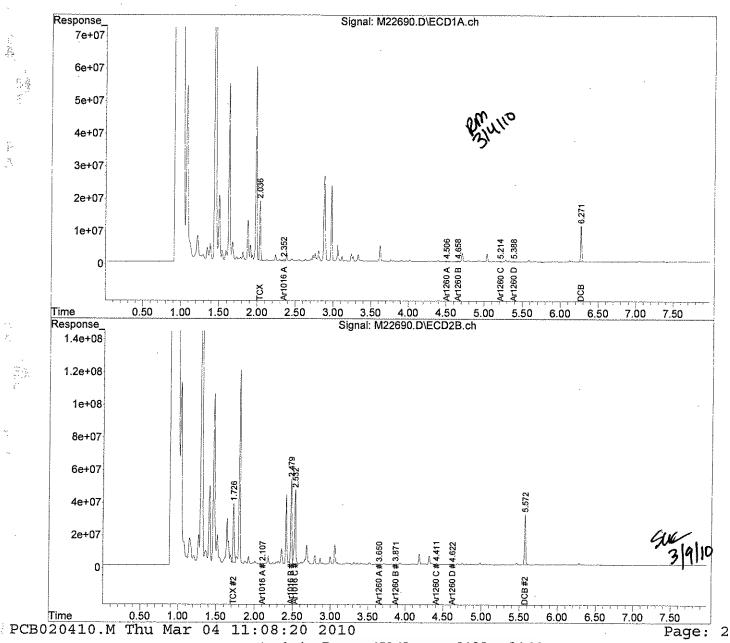
Integrator: ChemStation

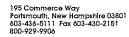
Volume Inj. :

Signal #1 Phase : Signal #1 Info :

Signal #2 Phase:

Signal #2 Info:







Peabody Terrace

PTX-CWW-111103-0414

210980

Ms. Amy Wallace Woodard & Curran 35 NE Business Center Suite 180 Andover MA 01810

Project Name:

**Project Number:** 

Field Sample ID:

CLIENT SAMPLE ID

March 9, 2010 SAMPLE DATA

Lab Sample ID:

Matrix:

65968-37

Wipe

Percent Solid:

N/A

**Dilution Factor:** 

1.0

**Collection Date:** 

03/01/10 03/02/10

Lab Receipt Date: **Extraction Date:** 

03/02/10

Analysis Date:

03/04/10

DCB.	ANIAT	ATICAL	DECLII	TC
FUD		11 11 U.A.L.	INDICATED AND INCIDENTIAL PROPERTY OF THE PROP	1

COMPOUND	Quantitation Limit ug/wipe	Results ug/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	Ŭ

### Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene

97 %

Decachlorobiphenyl

76 %

U=Undetected J=Estimated E=Exceeds Calibration Range

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

COMMENTS:

**PCBWipe** 

Authorized signature #L. L.

Data Path : C:\msdchem\1\DATA\030410-M\

⊠ Data File : M22691.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 4 Mar 2010 10:20 am

Operator : RM

Sample : 65968-37,,A/C

Misc : SOIL

ALS Vial : 67 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 04 11:08:22 2010

Quant Method : C:\msdchem\1\METHODS\PCB020410.M

Quant Title : Aroclor 1016/1260

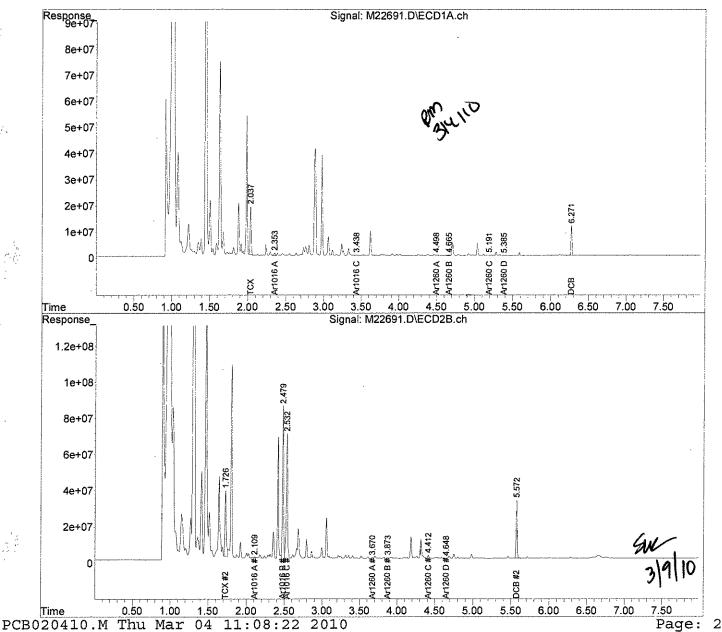
QLast Update : Thu Feb 04 11:18:55 2010

Response via: Initial Calibration

Integrator: ChemStation

Volume Inj.

2ନSignal #1 Phase : ଓ Signal #1 Info : Signal #2 Phase: Signal #2 Info:



195 Cammetae Way Partsmouth, New Hampshire 03801 603-436-5111 Fax 603-430-2151 800-929-9906



Peabody Terrace

PTX-CWM-111103-0415

210980

Ms. Amy Wallace Woodard & Curran 35 NE Business Center Suite 180 Andover MA 01810

**Project Name:** 

**Project Number:** 

Field Sample ID:

**CLIENT SAMPLE ID** 

March 9, 2010 SAMPLE DATA

Lab Sample ID:

65968-38

Matrix:

Wipe

Percent Solid:

N/A

**Dilution Factor:** 

1.0

**Collection Date:** 

03/01/10

Lab Receipt Date: **Extraction Date:** 

03/02/10 03/02/10

**Analysis Date:** 

03/04/10

A 444444	PCB ANALYTICAL RESULTS
	Quantitation

COMPOUND	Quantitation Limit ug/wipe	Results ug/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	· U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	n .
PCB-1260	0.5	U

### Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene

98 %

- Decachlorobiphenyl

75 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

COMMENTS:

PCBWipe

Data Path : C:\msdchem\1\DATA\030410-M\

Data File: M22692.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On 4 Mar 2010 10:30 am

Operator : RM

Sample 65968-38,,A/C

Misc SOIL

ALS Vial Sample Multiplier: 1 : 68

Integration File signal 1: events.e Integration File signal 2: events2.e

PG,Quant Time: Mar 04 11:08:24 2010

Quant Method : C:\msdchem\1\METHODS\PCB020410.M

Quant Title : Aroclor 1016/1260

QLast Update : Thu Feb 04 11:18:55 2010

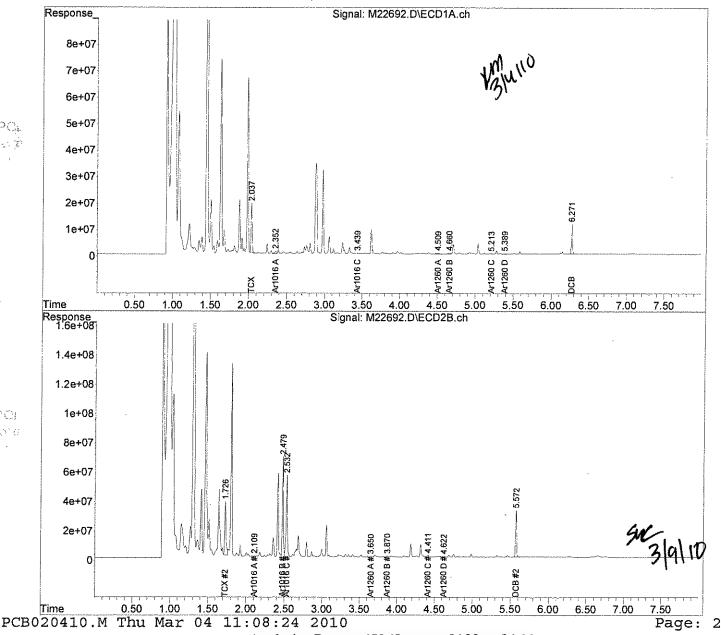
Response via: Initial Calibration

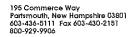
Integrator: ChemStation

Volume Inj. Signal #1 Phase : Signal #1 Info

PCa

POF \$43° 65 Signal #2 Phase: Signal #2 Info :







Peabody Terrace

210980

Ms. Amy Wallace Woodard & Curran 35 NE Business Center Suite 180 Andover MA 01810

Project Name:

**Project Number:** 

Field Sample ID:

CLIENT SAMPLE ID

March 9, 2010

### SAMPLE DATA

Lab Sample ID:

65968-39

Matrix:

Wipe

Percent Solid:

N/A

Dilution Factor:

1.0

**Collection Date:** 

03/01/10

Lab Receipt Date:

03/02/10 03/02/10

**Extraction Date:** Analysis Date:

03/04/10

PTX-CWT-111103-0416

### PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit ug/wipe	Results ug/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	Ŭ
PCB-1242	0.5	U
PCB-1248	0.5	U ,
PCB-1254	0.5	U
PCB-1260	0.5	U
	,	

### Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene

% 99

Decachlorobiphenyl

78

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in

%

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

COMMENTS:

PCBWipe

Authorized signature

### Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\030410-M\

Data File: M22693.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 4 Mar 2010 10:41 am

Operator : RM

Sample : 65968-39,,A/C

Misc : SOIL

ALS Vial : 69 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 04 11:08:26 2010

Quant Method : C:\msdchem\1\METHODS\PCB020410.M

Quant Title : Aroclor 1016/1260

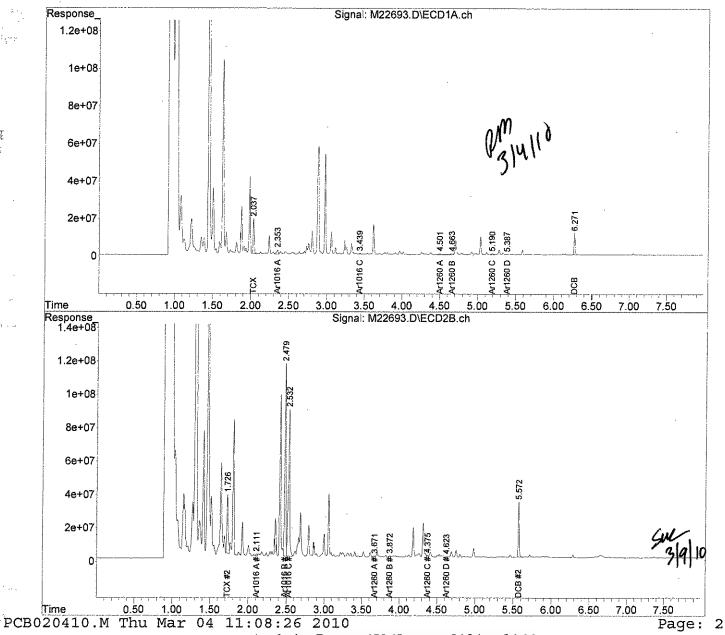
QLast Update : Thu Feb 04 11:18:55 2010

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. :

Signal #1 Phase : Signal #2 Phase: Signal #1 Info : Signal #2 Info :



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CLIENT SAMPLE ID

Project Name:

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

PTX-CWW-111103-0417

March 9, 2010 SAMPLE DATA

Lab Sample ID:

65968-40

Matrix:

Wipe

Percent Solid:

N/A 1.0

Dilution Factor:

Collection Date: Lab Receipt Date: 03/01/10 03/02/10

**Extraction Date:** 

03/02/10

Analysis Date:

03/04/10

	PCB ANALYTICAL RESULTS	
COMPOUND	Quantitation Limit	Results ug/wipe

COMPOUND	Limit ug/wipe	results ug/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	. U
. PCB-1254	0.5	U
PCB-1260	0.5	U

### Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene

100 %

Decachlorobiphenyl

77 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

COMMENTS:

**PCBWipe** 

Authorized signature £14

Data Path : C:\msdchem\1\DATA\030410-M\

Data File: M22694.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On 4 Mar 2010 10:51 am

Operator : RM

Sample : 65968-40,,A/C

Misc SOIL

ALS Vial : 70 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 04 11:08:28 2010

Quant Method: C:\msdchem\1\METHODS\PCB020410.M

Quant Title : Aroclor 1016/1260 GLast Update : Thu Feb 04 11:18:55 2010

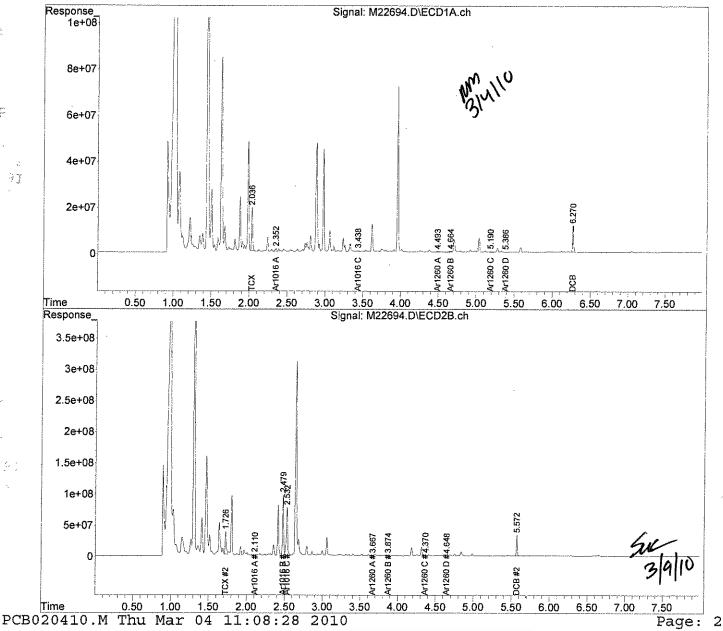
Response via : Initial Calibration

Integrator: ChemStation

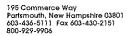
Volume Inj.

47

Signal #1 Phase : Signal #2 Phase: Signal #1 Info Signal #2 Info :



Analytics Report 65968 page 0136 of 166





Ms. Amy Wallace Woodard & Curran 35 NE Business Center Suite 180 Andover MA 01810

CLIENT SAMPLE ID

**Project Name:** 

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

PTX-CWWD-111103-0418

March 9, 2010

SAMPLE DATA

Lab Sample ID:

65968-41

Matrix:

Wipe

Percent Solid:

N/A

Dilution Factor:

0.1

Collection Date:

03/01/10

Lab Receipt Date:

03/02/10

**Extraction Date:** 

03/02/10

**Analysis Date:** 

03/04/10

PCB ANALYTICAL	RESULTS
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	COMPOUND	Quantitation Limit ug/wipe	Results ug/wipe
	PCB-1016	0.5	U
	PCB-1221	0.5	U
	PCB-1232	0.5	U
	PCB-1242	0.5	U
-	PCB-1248	0.5	U
	PCB-1254	0.5	U
	PCB-1260	. 0.5	U

# Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene

97 %

Decachlorobiphenyl

78 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

COMMENTS:

**PCBWipe** 

Authorized signature

Data Path : C:\msdchem\1\DATA\030410-M\

Data File: M22695.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 4 Mar 2010 11:01 am

Operator : RM

Sample : 65968-41,,A/C

👊 Misc 🕟 : SOIL

ALS Vial : 71 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 04 11:19:30 2010

Quant Method: C:\msdchem\1\METHODS\PCB020410.M

Quant Title : Aroclor 1016/1260

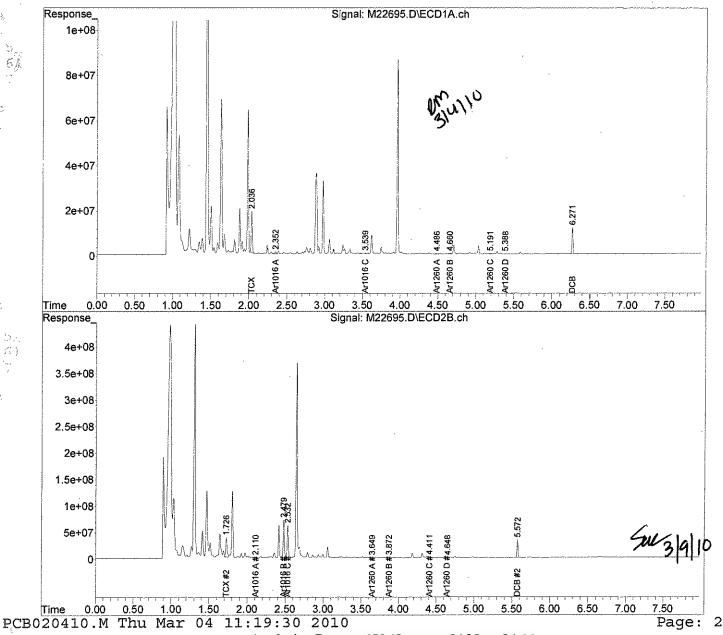
QLast Update : Thu Feb 04 11:18:55 2010

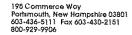
Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : Signal #1 Phase : Signal #1 Info :

Signal #2 Phase: Signal #2 Info:







Ms. Amy Wallace Woodard & Curran 35 NE Business Center Suite 180 Andover MA 01810

# **CLIENT SAMPLE ID**

**Project Name:** 

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

PTX-CWM-111103-0419

March 9, 2010 SAMPLE DATA

Lab Sample ID: 65968-42

Matrix:

Wipe

Percent Solid:

N/A 1.0

Dilution Factor:

03/01/10

Collection Date: Lab Receipt Date:

03/02/10

**Extraction Date:** 

03/02/10

**Analysis Date:** 

03/04/10

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit ug/wipe	Results ug/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U ·
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	. 0.5	U
*		

# Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene

95 %

Decachlorobiphenyl

82 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

COMMENTS:

**PCBWipe** 

Authorized signature £

### Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\030410-M\

Data File : M22700.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On 4 Mar 2010 11:56 am

Operator : RM

Sample : 65968-42,,A/C

Misc : SOIL

ALS Vial : 76 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 04 14:22:53 2010

Quant Method : C:\msdchem\1\METHODS\PCB020410.M

Quant Title : Aroclor 1016/1260

QLast Update: Thu Feb 04 11:18:55 2010 Response via: Initial Calibration

Integrator: ChemStation

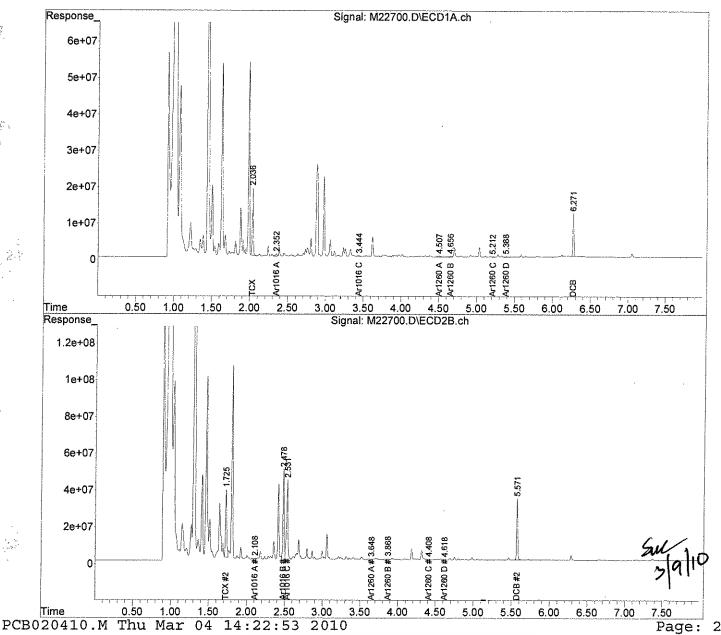
Volume Inj. ्रेंSignal #1 Phase :

Signal #1 Info

Signal #2 Phase:

Signal #2 Info :

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# PCB QC FORMS

SDG: 65968

Instrument 1D: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

|                                       | Column #1 |                                         |                                       |                                         | Column #2 |          |           |                                         |  |
|---------------------------------------|-----------|-----------------------------------------|---------------------------------------|-----------------------------------------|-----------|----------|-----------|-----------------------------------------|--|
| SAMPLE ID                             | SMC 1 (%) | #                                       | SMC 2 (%)                             | #                                       | SMC 1 (%) | #        | SMC 2 (%) | #                                       |  |
| B030210PSOX,,A/C                      | 94        |                                         | 78                                    |                                         | 91        | T        | 77        |                                         |  |
| L030210PSOX,,A/C                      | 99        | *************************************** | 77                                    |                                         | 90        |          | 77        |                                         |  |
| LD030210PSOX,,A/C                     | 96        |                                         | 77                                    |                                         | 91        |          | 77        |                                         |  |
| 65968-32,,A/C                         | 98        | ······································  | 77                                    | **********                              | 94        | 1        | 78        | *************************************** |  |
| 65968-33,,A/C                         | 93        |                                         | 75                                    |                                         | 90        |          | 77        |                                         |  |
| 65968-34,,A/C                         | 93        |                                         | 76                                    |                                         | 86        | <b>1</b> | 75        |                                         |  |
| 65968-35,,A/C                         | 94        |                                         | 78                                    |                                         | 91        |          | 76        |                                         |  |
| 65968-36,,A/C                         | 94        |                                         | 73                                    |                                         | 92        | <b> </b> | 75        |                                         |  |
| 65968-37,,A/C                         | 97        |                                         | 76                                    |                                         | 97        |          | 78        |                                         |  |
| 65968-38,,A/C                         | 98        |                                         | 75                                    | *************************************** | 98        |          | 78        |                                         |  |
| 65968-39,,A/C                         | 99        |                                         | 78                                    |                                         | 94        |          | 79        |                                         |  |
| 65968-40,,A/C                         | 100       |                                         | 77                                    |                                         | 97        |          | 79        |                                         |  |
| 65968-41,,A/C                         | 97        |                                         | 78                                    |                                         | 98        |          | 78        |                                         |  |
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|              | Lower | Upper |
|--------------|-------|-------|
|              | Limit | Limit |
| SMC #1 = TCX | 40    | 130   |
| SMC #2 = DCB | 40    | 130   |

- # Column to be used to flag recovery values outside of QC limits
- \* Values outside QC limits
- D System Monitoring Compound diluted out

# PCB FORM 2

Instrument ID: M

GC Column #1: STX-CLPesticides I

SDG:

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

|                                        | Column #1                               |                                                  |           | Column #2                              |                       |          |    |      |
|----------------------------------------|-----------------------------------------|--------------------------------------------------|-----------|----------------------------------------|-----------------------|----------|----|------|
| SAMPLE ID                              | SMC 1 (%)                               | #                                                | SMC 2 (%) | #                                      | SMC 1 (%) # SMC 2 (%) |          |    | #    |
| B030310PSOX,,A/C,RR                    | 101                                     |                                                  | 78        |                                        | 92                    | Γ        | 82 |      |
| L030310PSOX,,A/C                       | 99                                      |                                                  | 80        |                                        | 95                    | -        | 85 |      |
| LD030310PSOX,,A/C                      | 94                                      |                                                  | 72        | Ì                                      | 85                    |          | 77 |      |
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|              | Lower | Upper |
|--------------|-------|-------|
| ,            | Limit | Limit |
| SMC #1 = TCX | 40    | 130   |
| SMC #2 = DCB | 40    | 130   |

- # Column to be used to flag recovery values outside of QC limits
- \* Values outside QC limits
- D System Monitoring Compound diluted out

Instrument ID: M

GC Column #1: STX-CLPesticides I

SDG: 65968

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

|                                         |           | Colum                                   | n #1      |                                         | 1                                                | Colum         | n #2      |                                         |
|-----------------------------------------|-----------|-----------------------------------------|-----------|-----------------------------------------|--------------------------------------------------|---------------|-----------|-----------------------------------------|
| SAMPLE ID                               | SMC 1 (%) | #                                       | SMC 2 (%) | #                                       | SMC 1 (%)                                        | #             | SMC 2 (%) | #                                       |
| B030210PSOX,,A/C                        | 91        |                                         | 74        |                                         | 86                                               | T             | 85        |                                         |
| L030210PSOX,,A/C                        | 94        |                                         | 78        |                                         | 92                                               | T             | 83        | ļ                                       |
| LD030210PSOX,,A/C                       | 98        | 1                                       | 79        |                                         | 95                                               |               | 83        |                                         |
| 65968-42,,A/C                           | 97        |                                         | 78        | ļ                                       | 95                                               |               | 82        |                                         |
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|              | Lower | Upper |
|--------------|-------|-------|
| *            | Limit | Limit |
| SMC #1 = TCX | 40    | 130   |
| SMC #2 = DCB | 40    | 130   |

# Column to be used to flag recovery values outside of QC limits

\* Values outside QC limits

D System Monitoring Compound diluted out

SDG: 65968

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

|                                         |              | Colum                                  | n #1                                   |                                         |           | Colum        | n #2      |                                         |
|-----------------------------------------|--------------|----------------------------------------|----------------------------------------|-----------------------------------------|-----------|--------------|-----------|-----------------------------------------|
| SAMPLE ID                               | SMC 1 (%)    | #                                      | SMC 2 (%)                              | #                                       | SMC 1 (%) | #            | SMC 2 (%) | #                                       |
| B030310PSOX                             | 90           |                                        | 66                                     | <del></del>                             | 90        | T            | 59        | ·                                       |
| L030310PSOX                             | 91           |                                        | 66                                     |                                         | 93        | ļ            | 63        |                                         |
| LD030310PSOX                            | 96           |                                        | 70                                     |                                         | 97        |              | 66        |                                         |
| 65968-1                                 | 91           |                                        | 69                                     | ********                                | 90        |              | 67        |                                         |
| 65968-1,MS                              | 89           |                                        | 68                                     |                                         | 87        |              | 67        | <del></del>                             |
| 65968-1,MSD                             | 91           |                                        | 69                                     |                                         | 91        |              | 68        |                                         |
| 65968-3                                 | 92           |                                        | 67                                     |                                         | 94        |              | 65        | ••••                                    |
| 65968-4                                 | 93           |                                        | 69                                     | ···········                             | 94        |              | 66        |                                         |
| 65968-13                                | 88           |                                        | 69                                     |                                         | 88        |              | 67        |                                         |
| 65968-15                                | 89           |                                        | 70                                     |                                         | 87        |              | 68        |                                         |
| 65968-19                                | 91           |                                        | 69                                     | *************************************** | 91        |              | 67        | ?                                       |
| 65968-21                                | 91           |                                        | 67                                     |                                         | 90        |              | 64        |                                         |
| 65968-22                                | 89           | <del> </del>                           | 68                                     |                                         | 88        | ` `          | 68        | *************************************** |
| 65968-24                                | 88           |                                        | 69                                     |                                         | 89        | <u> </u>     | 69        |                                         |
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|              | Lower | Upper |
|--------------|-------|-------|
|              | Limit | Limit |
| SMC #1 = TCX | 40    | 130   |
| SMC #2 = DCB | 40    | 130   |

- # Column to be used to flag recovery values outside of QC limits
- \* Values outside QC limits
- D System Monitoring Compound diluted out

# PCB FORM 2 Analytics Report 65968 page 0145 of 166

Instrument ID: M

GC Column #1: STX-CLPesticides I

SDG: 65968

Column 1D: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

|                     | Column    |    |           |   |           | Column #2 |                                        |                                         |
|---------------------|-----------|----|-----------|---|-----------|-----------|----------------------------------------|-----------------------------------------|
| SAMPLE ID           | SMC 1 (%) | #  | SMC 2 (%) | # | SMC 1 (%) | #         | SMC 2 (%)                              | #                                       |
| B020810PAS,RR2,,A/C | 87        |    | 69        |   | 78        |           | 63                                     |                                         |
| 65968-7,1:2         | 92        |    | 66        |   | 94        |           | 66                                     |                                         |
| 65968-20,1:10       | 118       |    | 85        |   | 112       | 1         | 105                                    | *************************************** |
| 65968-8,1;20,,A/C   | D         |    | D         | 1 | D         |           | D                                      |                                         |
| 65968-2,1:20        | D         |    | D         |   | D         |           | D                                      |                                         |
| 65968-18,1:20       | D         |    | D         |   | D         |           | D                                      |                                         |
|                     |           |    |           | 1 |           | 1         |                                        |                                         |
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|              | Lower | Upper |
|--------------|-------|-------|
|              | Limit | Limit |
| SMC #1 = TCX | 40    | 130   |
| SMC #2 = DCB | 40    | 130   |

- # Column to be used to flag recovery values outside of QC limits
- \* Values outside QC limits
- D System Monitoring Compound diluted out

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG: 65968

|              |           | Colum | n #I      |       | -                                       | Colum                                 | n #2      | ····· |
|--------------|-----------|-------|-----------|-------|-----------------------------------------|---------------------------------------|-----------|-------|
| SAMPLE ID    | SMC I (%) | #     | SMC 2 (%) | #     | SMC 1 (%)                               | #                                     | SMC 2 (%) | #     |
| B030510PSOX  | 98        |       | 75        | Ì     | 96                                      | 1                                     | 73        |       |
| L030510PSOX  | 98        |       | 75        |       | 95                                      |                                       | 74        |       |
| LD030510PSOX | 98        |       | 68        |       | 97                                      |                                       | 74        |       |
| 65968-6,RX   | 96        |       | 68        |       | 97                                      | l                                     | 73        |       |
| 65968-12,RX  | . 96      |       | 69        |       | 97                                      |                                       | 74        |       |
| 65968-14,RX  | 98        |       | 66        | ····· | 94                                      | Ì                                     | 78        |       |
| 65968-5,100X | D         |       | D         |       | D                                       |                                       | D .       |       |
|              |           |       |           |       |                                         |                                       |           |       |
|              |           |       |           |       |                                         |                                       |           |       |
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|              | _11       |       |           |       | <u>l</u>                                |                                       |           |       |

|              | Lower | Upper |
|--------------|-------|-------|
|              | Limit | Limit |
| SMC #1 = TCX | 40    | 130   |
| SMC #2 = DCB | 40    | 130   |

- # Column to be used to flag recovery values outside of QC limits
- \* Values outside QC limits
- D System Monitoring Compound diluted out

# PCB AQUEOUS SYSTEM MONITORING COMPOUNDS SUMMARY

SDG: 65968

Instrument ID: L

GC Column #1: STX-CLPésticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

|                                                  | Column #1 |                                         |           | Column #2                               |           |                                         |           |                                         |
|--------------------------------------------------|-----------|-----------------------------------------|-----------|-----------------------------------------|-----------|-----------------------------------------|-----------|-----------------------------------------|
| SAMPLE ID                                        | SMC 1 (%) | #                                       | SMC 2 (%) | #                                       | SMC 1 (%) | #                                       | SMC 2 (%) | #                                       |
| B030810PW                                        | 69        |                                         | 53        |                                         | 73        | 1                                       | 58        |                                         |
| L030810PWB                                       | 77        |                                         | 48        |                                         | 81        |                                         | 52        |                                         |
| LD030810PWB                                      | 56        |                                         | 31        | *                                       | 58        |                                         | 35        | *                                       |
| 65968-23                                         | 61        |                                         | 21        | *                                       | 63        |                                         | 24        | *                                       |
| 65968-31                                         | 78        |                                         | 46        |                                         | 81        |                                         | 49        |                                         |
|                                                  |           |                                         |           |                                         |           | <u> </u>                                |           |                                         |
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|              | Lower | Upper |
|--------------|-------|-------|
|              | Limit | Limit |
| SMC #1 = TCX | 46    | 122   |
| SMC #2 = DCB | 40    | 135   |

- # Column to be used to flag recovery values outside of QC limits
- \* Values outside QC limits
- D System Monitoring Compound diluted out

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Instrument ID: L

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

| SDG: | 65968 |
|------|-------|
|      |       |

|                 |           | Columi                                  | 1 #1                                    | *************************************** |           | Colum | n #2                                         | *************************************** |
|-----------------|-----------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------|-------|----------------------------------------------|-----------------------------------------|
| SAMPLE ID       | SMC 1 (%) | #                                       | SMC 2 (%)                               | #                                       | SMC 1 (%) | #     | SMC 2 (%)                                    | #                                       |
| B030410PSOX,RR  | 91        |                                         | 69                                      |                                         | 90        |       | 76                                           |                                         |
| L030410PSOX,RR  | 87        |                                         | 67                                      |                                         | 86        |       | 72                                           |                                         |
| LD030410PSOX,RR | 89        |                                         | 69                                      |                                         | 89        |       | 74                                           |                                         |
| 65968-16,1:20   | D         |                                         | D                                       |                                         | D         |       | D                                            |                                         |
| 65968-28,1:10   | 90        |                                         | 192                                     | *                                       | 77        |       | 83                                           |                                         |
| 65968-29, 1:10  | 88        |                                         | 272                                     | *                                       | 73        |       | 78                                           |                                         |
| 65968-30, 1:50  | D         |                                         | D                                       |                                         | D         | `     | D                                            | */                                      |
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|                 | 1         |                                         | L                                       |                                         |           |       | <u>.                                    </u> |                                         |

|              | Lower | Upper |
|--------------|-------|-------|
|              | Limit | Limit |
| SMC #1 = TCX | 40    | 130   |
| SMC #2 = DCB | 40    | 130   |

- # Column to be used to flag recovery values outside of QC limits
- \* Values outside QC limits
- D System Monitoring Compound diluted out

Instrument ID: L

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column 1D: 0.25 mm

SDG:

|                   |           | Colum        | n #1      |       |                                         | Colum    | n #2                    |                                         |
|-------------------|-----------|--------------|-----------|-------|-----------------------------------------|----------|-------------------------|-----------------------------------------|
| SAMPLE ID         | SMC 1 (%) | #            | SMC 2 (%) | #     | SMC 1 (%)                               | #        | SMC 2 (%)               | #                                       |
| B030810PW,RR2     | 65        |              | 53        |       | 67                                      |          | 97                      |                                         |
| 65968-17,RX,1:500 | D         |              | D         |       | D                                       |          | D                       | <b></b>                                 |
| 65968-9,1:2000    | D         |              | D         |       | D                                       | 1        | D                       |                                         |
| 65968-10,1:1000   | D         |              | D         |       | D                                       |          | D                       |                                         |
| 65968-27, 1:400   | D         |              | D         |       | D                                       | 1        | D                       |                                         |
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| 1                 |           |              |           |       |                                         |          | ······                  |                                         |

|              | Lower | Upper |
|--------------|-------|-------|
|              | Limit | Limit |
| SMC #1 = TCX | 40    | 130   |
| SMC #2 = DCB | 40    | 130   |

- # Column to be used to flag recovery values outside of QC limits
- \* Values outside QC limits
- D System Monitoring Compound diluted out

Instrument ID: L

GC Column #1: STX-CLPesticides I

SDG:

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

| Column #1   Column #2                                                                                                                                                   |          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| B030910PSOX 87 65 88 68 68 L030910PSOX 87 66 91 68 LD030910PSOX 86 66 89 67 65968-25 RX 83 66 87 69 65968-26, 1:20000 D D D D D D D 65968-11, 1:10,3/3/10 73 43 39 * 26 | ) #      |
| L030910PSOX 87 66 91 68 LD030910PSOX 86 66 89 67 65968-25 RX 83 66 87 69 65968-26, 1:20000 D D D D D 65968-11, 1:10,3/3/10 73 43 39 * 26                                |          |
| LD030910PSOX 86 66 89 67 65968-25 RX 83 66 87 69 65968-26, 1:20000 D D D D D D 65968-11, 1:10,3/3/10 73 43 39 * 26                                                      |          |
| 65968-26, 1:20000 D D D D D D D D D D D D D D D D D                                                                                                                     |          |
| 65968-11, 1:10,3/3/10 73 43 39 * 26                                                                                                                                     |          |
| 65968-11, 1:10,3/3/10 73 43 39 * 26                                                                                                                                     |          |
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|              | Lower | Upper |
|--------------|-------|-------|
|              | Limit | Limit |
| SMC #1 = TCX | 40    | 130   |
| SMC #2 = DCB | 40    | 130   |

- # Column to be used to flag recovery values outside of QC limits
- \* Values outside QC limits
- D System Monitoring Compound diluted out

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

Non-spiked sample: B030210PSOX2,,A/C

SDG:

GC Column #2: STX-CLPesticides II

Spike: L030210PSOX2,,A/C

Column ID: 0.25 mm Spike

| Spike duplicate: | LD030210PSOX2,,A/C |
|------------------|--------------------|
|                  |                    |

|             | LCS SPIKE     | LCSD SPIKE    | LOWER | UPPER | RPD     | NON-SPIKE      | SPIKE          | SPIKE |   | SPIKE DUP      | SPIKE DUP |   |      | 7 |
|-------------|---------------|---------------|-------|-------|---------|----------------|----------------|-------|---|----------------|-----------|---|------|---|
| COMPOUND    | ADDED (ug/kg) | ADDED (ug/kg) | LIMIT | LIMIT | LIMIT . | RESULT (ug/kg) | RESULT (ug/kg) | % REC | # | RESULT (ug/kg) | % REC     | # | RPD  | # |
| PCB 1016    | 200           | 200           | 65    | 140   | 30      | 0              | 229            | 114   |   | 202 ′          | 101       |   | 12,4 |   |
| PCB 1260    | 200           | 200           | 60    | 130   | 30      | 0              | 224            | 112   |   | 207            | 104       |   | 7.8  |   |
| PCB 1016 #2 | 200           | 200           | 65    | 140   | 30      | 0              | 206            | 103   |   | 219            | 110       |   | 6.1  |   |
| PCB 1260 #2 | 200           | 200           | 60    | 130   | 30      | 0              | 231            | 116   |   | 222            | I11       |   | 4,3  |   |

# Column to be used to flag recovery and RPD values outside of QC limits

\* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted.

| Comments: | <br> |  |  |  |
|-----------|------|--|--|--|
|           |      |  |  |  |

Instrument ID: M

GC Column #1: STX-CLPesticides I

SDG: 65968

Column 1D: 0.25 mm

Non-spiked sample: B030210PSOX,,A/C

GC Column #2: STX-CLPesticides II

Spike: L030210PSOX,,A/C

Column ID: 0.25 mm

Spike duplicate: LD030210PSOX,,A/C

|             | LCS SPIKE     | LCSD SPIKE    | LOWER | UPPER | RPD   | NON-SPIKE      | SPIKE          | SPIKE |   | SPIKE DUP      | SPIKE DUP |   |      |   |
|-------------|---------------|---------------|-------|-------|-------|----------------|----------------|-------|---|----------------|-----------|---|------|---|
| COMPOUND    | ADDED (ug/kg) | ADDED (ug/kg) | LIMIT | LIMIT | LIMIT | RESULT (ug/kg) | RESULT (ug/kg) | % REC | # | RESULT (ug/kg) | % REC     | # | RPD  | # |
| PCB 1016    | 200           | 200           | 65    | 140   | 30    | 0              | 208            | 104   |   | 210            | 105       |   | 1.1  | L |
| PCB 1260    | 200           | 200           | 60    | 130   | 30    | 0              | 217            | 108   |   | 248            | 124       |   | 13.4 |   |
| PCB 1016 #2 | 200           | 200           | 65    | 140   | 30    | 0              | 161            | 81    |   | 215            | 108       |   | 28.1 |   |
| PCB 1260 #2 | 200           | 200           | 60    | 130   | 30    | 0              | 218            | 109   |   | 243            | 122       |   | 11.1 |   |

- # Column to be used to flag recovery and RPD values outside of QC limits
- \* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted.

| Comments: |  |
|-----------|--|
|           |  |

Instrument ID: M

GC Column #1; STX-CLPestieides I

Column ID: 0.25 mm

SDG:
Non-spiked sample: B030310PSOX

GC Column #2: STX-CLPesticides I1

Spike: L030310PSOX

Column 1D: 0,25 mm

Spike duplicate: LD030310PSOX

|             | LCS SPIKE     | LCSD SPIKE    | LOWER | UPPER | RPD   | NON-SPIĶE      | SPIKE          | SPIKE |   | SPIKE DUP        | SPIKE DUP | , |     |   |
|-------------|---------------|---------------|-------|-------|-------|----------------|----------------|-------|---|------------------|-----------|---|-----|---|
| COMPOUND    | ADDED (ug/kg) | ADDED (ug/kg) | LIMIT | LIMIT | LIMIT | RESULT (ug/kg) | RESULT (ug/kg) | % REC | # | RESULT (ug/kg)   | % REC     | # | RPD | # |
| PCB 1016    | 200           | 200           | 65    | 140   | 30    | 0              | 185            | 93    |   | 1 <del>9</del> 6 | 98        |   | 5.6 |   |
| PCB 1260    | 200           | 200           | 60    | 130   | 30    | 0              | 191            | 96    |   | 203              | 101       |   | 5.9 |   |
| PCB 1016 #2 | 200           | 200           | 65    | 140   | 30    | 0              | 189            | 95    |   | 201              | 100       |   | 6,0 |   |
| PCB 1260 #2 | 200           | 200           | 60    | 130   | 30    | 0              | 201            | 101   |   | 212              | 106       |   | 5.2 |   |

# Column to be used to flag recovery and RPD values outside of QC limits

\* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted.

| Comments: | · |  |
|-----------|---|--|
|           |   |  |

# PCB SOIL MATRIX SPIKE/DUPLICATE PERCENT RECOVERY

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column 1D: 0.25 mm

SDG: Non-spiked sample: 65968-1

Spike: 65968-1,MS

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

Spike duplicate: 65968-I,MSD

|             | MS SPIKE      | MSD SPIKE     | LOWER | UPPER | RPD   | NON-SPIKE      | SPIKE          | SPIKE |   | SPIKE DUP      | SPIKE DUP |   |      |   |
|-------------|---------------|---------------|-------|-------|-------|----------------|----------------|-------|---|----------------|-----------|---|------|---|
| COMPOUND    | ADDED (ug/kg) | ADDED (ug/kg) | LIMIT | LIMIT | LIMIT | RESULT (ug/kg) | RESULT (ug/kg) | % REC | # | RESULT (ug/kg) | % REC     | # | RPD  | # |
| PCB 1016    | 1895          | 2024          | 65    | 140   | 30    | 0              | 1845           | 97    |   | 2031           | 100       |   | 9,6  |   |
| PCB 1260    | 1895          | 2024          | 60    | 130   | 30    | 0              | 1858           | 98    |   | 2103           | 104       |   | 12.3 | П |
| PCB 1016 #2 | 1895          | 2024          | 65    | 140   | 30    | 0              | 1738           | 92    |   | 2008           | 99        |   | 14,4 |   |
| PCB 1260 #2 | 1895          | 2024          | 60    | 130   | 30    | 0              | 1933           | 102   |   | 2144           | 106       |   | 10,3 |   |

# Column to be used to flag recovery and RPD values outside of QC limits

\* Values outside QC limits

MS/MSD spike added values have been weight adjusted.

| Comments; |  |
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|           |  |
|           |  |
|           |  |

Instrument ID: M

GC Column #1: STX-CLPesticides 1

Column 1D: 0.25 mm

Non-spiked sample: B030310PSOX,,A/C,RR

SDG:

Spike: L030310PSOX,,A/C

GC Column #2: STX-CLPesticides II

Spike duplicate: LD030310PSOX,,A/C

| Column | 1D: | 0.25 | mm |
|--------|-----|------|----|
|        |     |      |    |

|             | LCS SPIKE     | LCSD SPIKE    | LOWER | UPPER | RPD   | NON-SPIKE      | SPIKE          | SPIKE |   | SPIKE DUP      | SPIKE DUF | , |      |   |
|-------------|---------------|---------------|-------|-------|-------|----------------|----------------|-------|---|----------------|-----------|---|------|---|
| COMPOUND    | ADDED (ug/kg) | ADDED (ug/kg) | LIMIT | LIMIT | LIMIT | RESULT (ug/kg) | RESULT (ug/kg) | % REC | # | RESULT (ug/kg) | % REC     | # | RPD  | # |
| PCB 1016    | 200           | 200           | 65    | 140   | 30    | 0 .            | 235            | 118   |   | 141            | 70        |   | 50.3 | * |
| PCB 1260    | 200           | 200           | 60    | 130   | 30    | 0              | 340            | 170   | * | 282            | 141       | * | 18,8 | П |
| PCB 1016 #2 | 200           | 200           | 65    | 140   | 30    | 0              | 199            | 100   |   | 224            | 112       |   | 11.8 | П |
| PCB 1260 #2 | 200           | 200           | 60    | 130   | 30    | 0              | 338            | 169   | * | 235            | 117       |   | 36,0 | * |

- # Column to be used to flag recovery and RPD values outside of QC limits
- \* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted.

| Comments: |   |
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|           | , |

Instrument 1D; M

GC Column #1: STX-CLPesticides I

SDG: 65968

Column ID; 0,25 mm

Non-spiked sample: B030510PSOX

GC Column #2: STX-CLPesticides II

Spike: L030510PSOX

Column ID: 0,25 mm

Spike duplicate: LD030510PSOX

|             | LCS SPIKE     | LCSD SPIKE    | LOWER | UPPER | RPD   | NON-SPIKE      | SPIKE          | SPIKE |   | SPIKE DUP      | SPIKE DUP |   |      |   |
|-------------|---------------|---------------|-------|-------|-------|----------------|----------------|-------|---|----------------|-----------|---|------|---|
| COMPOUND    | ADDED (ug/kg) | ADDED (ug/kg) | LIMIT | LIMIT | LIMIT | RESULT (ug/kg) | RESULT (ug/kg) | % REC | # | RESULT (ug/kg) | % REC     | # | RPD  | # |
| PCB 1016    | 200           | 200           | 65    | 140   | 30    | 0              | 216            | 108   |   | 222            | 111       |   | 2.6  |   |
| PCB 1260    | 200           | 200           | 60    | 130   | 30    | 0              | 203            | 101   |   | 203            | 102       |   | 0.1  |   |
| PCB 1016 #2 | 200           | 200           | 65    | 140   | 30    | 0              | 231            | 116   |   | 202            | 101       |   | 13,2 |   |
| PCB 1260 #2 | 200           | 200           | 60    | 130   | 30    | 0              | 199            | 99    |   | 201            | 101       |   | 1.0  |   |

# Column to be used to flag recovery and RPD values outside of QC limits

\* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted.

| Comments: | ······································ |
|-----------|----------------------------------------|
|           |                                        |

### PCB AQUEOUS LABORATORY CONTROL/LABORATORY CONTROL DUPLICATE PERCENT RECOVERY

Instrument 1D: L

GC Column #1: STX-CLPesticides I

Column ID: 0,25 mm

GC Column #2: STX-CLPesticides 11

Column 1D: 0.25 mm

SDG:

Non-spiked sample: B030810PW

Spike: L030810PWB

Spike duplicate: LD030810PWB

|             | LCS SPIKE    | LCSD SPIKE   | LOWER | UPPER | RPD   | NON-SPIKE     | SPIKE         | SPIKE |   | SPIKE DUP     | SPIKE DUI | ,          |      |   |
|-------------|--------------|--------------|-------|-------|-------|---------------|---------------|-------|---|---------------|-----------|------------|------|---|
| COMPOUND    | ADDED (ug/L) | ADDEO (ug/L) | LIMIT | LIMIT | LIMIT | RESULT (ug/L) | RESULT (ug/L) | % REC | # | RESULT (ug/L) | % REC     | #          | RPD  | # |
| PCB 1016    | 2,0          | 2,0          | 79    | 113   | 25    | 0.00          | 1.66          | 83    |   | 1.31          | 66        | *          | 23.3 | _ |
| PCB 1260    | 2.0          | 2.0          | 58    | 115   | 25    | 0.00          | 1,70          | 85    |   | 1.41          | 70        | L          | 18,4 | l |
| PCB 1016#2  | 2.0          | 2.0          | 81    | 112   | 25    | 0.00          | 1.84          | 92    |   | 1.41          | 70 ·      | <u> </u> * | 26.4 | 1 |
| PCB 1260 #2 | 2.0          | 2.0          | 54    | 123   | 25    | 0.00          | 1.74          | 87    |   | 1,44          | 72        | L          | 19,1 | 1 |

# Column to be used to flag recovery and RPD values outside of QC limits

\* Values outside QC limits

LCS/LCSD spike added values have been volume adjusted.

| Comments: | <br> |
|-----------|------|
|           |      |

Instrument ID: L

GC Column #1: STX-CLPesticides 1

SDG:

Column ID: 0.25 mm

Non-spiked sample: B030410PSOX,RR

GC Column #2: STX-CLPesticides II

Spike: L030410PSOX,RR

Column ID: 0.25 mm

Spike duplicate: LD030410PSOX,RR

|             | LCS SPIKE     | LCSD SPIKE    | LOWER | UPPER | RPD   | NON-SPIKE      | SPIKE          | SPIKE |    | SPIKE DUP      | SPIKE DUP |   |      |   |
|-------------|---------------|---------------|-------|-------|-------|----------------|----------------|-------|----|----------------|-----------|---|------|---|
| COMPOUND    | ADDED (ug/kg) | ADDED (ug/kg) | LIMIT | LIMIT | LIMIT | RESULT (ug/kg) | RESULT (ug/kg) | % REC | #. | RESULT (ug/kg) | % REC     | # | RPD  | # |
| PCB 1016    | 200           | 200           | 65    | 140   | 30    | 0              | 185            | 92    |    | 198            | 99        |   | 7.2  |   |
| PCB 1260    | 200           | 200 ′         | 60    | 130   | 30    | 0              | 170            | 85    |    | 178            | 89        |   | 4.3  |   |
| PCB 1016 #2 | 200           | 200           | 65    | 140   | 30    | Ò              | 187            | 94    |    | 216            | 108       |   | 14,2 |   |
| PCB 1260 #2 | 200           | 200           | 60    | 130   | 30    | 0              | 183            | 91    |    | 194            | 97        |   | 6.1  |   |

# Column to be used to flag recovery and RPD values outside of QC limits

\* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted,

| Comments: | <br>_ |
|-----------|-------|
|           |       |

Instrument ID: L

GC Column #1: STX-CLPesticides I

SDG:

Column ID: 0.25 mm

Non-spiked sample; B030910PSOX

GC Column #2; STX-CLPesticides II

Spike: L030910PSOX

Column 1D: 0.25 mm

Spike duplicate: LD030910PSOX

|             | LCS SPIKE     | LCSD SPIKE    | LOWER | UPPER | RPD   | NON-SPIKE      | SPIKE          | SPIKE |   | SPIKE DUP      | SPIKE DUP | *************************************** |     |   |
|-------------|---------------|---------------|-------|-------|-------|----------------|----------------|-------|---|----------------|-----------|-----------------------------------------|-----|---|
| COMPOUND    | ADDED (ug/kg) | ADDED (ug/kg) | LIMIT | LIMIT | LIMIT | RESULT (ug/kg) | RESULT (ug/kg) | % REC | # | RESULT (ug/kg) | % REC     | #                                       | RPD | # |
| PCB 1016    | 200           | 200           | 65    | 140   | 30    | 0              | 169            | 84    |   | 168            | 84        | *************************************** | 0.7 |   |
| PCB 1260    | 200           | 200           | 60    | 130   | 30    | 0              | 177            | 89    |   | 177            | 89        |                                         | 0.2 |   |
| PCB 1016 #2 | 200           | 200           | 65    | 140   | 30    | 0              | 187            | 93    |   | 186            | 93        |                                         | 0.2 |   |
| PCB 1260 #2 | 200           | 200           | 60    | 130   | 30    | 0              | 171            | 86    |   | 172            | 86        |                                         | 0.3 |   |

# Column to be used to flag recovery and RPD values outside of QC limits

\* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted.

| Comments: |   |  |  |
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# CHAIN OF CUSTODIES

# Chain Of Custody Form

|                                                  | <del></del>       | <b>1</b> 00      | 8                               | วา<br>ร                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 14<br>P                                  | 197<br>10              | 70<br>9 pa<br>5        | secelv                                 | 1 2                                                    | $\epsilon \iota$    | ime:<br>ime:<br>ime:<br>lime: | L                     | 01                   | pe 11               | )ate:  <br>        | ?                 |                      |                   |                       |                      | ∂€                                      | )<br>)2./<br>=      | -}-<br>               | 5<br>200              | shed By           |                                       | Я                                       |
|--------------------------------------------------|-------------------|------------------|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------------------------|------------------------|----------------------------------------|--------------------------------------------------------|---------------------|-------------------------------|-----------------------|----------------------|---------------------|--------------------|-------------------|----------------------|-------------------|-----------------------|----------------------|-----------------------------------------|---------------------|-----------------------|-----------------------|-------------------|---------------------------------------|-----------------------------------------|
| Jnly Rev. 5 06/18/08                             | livered           | .,               | A Section                       | ondition or N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CARICA                                   | 25/2/10                |                        |                                        | nH Anslytine Commis #                                  | ~                   |                               | 1                     |                      | 7                   | ) ;                | 9                 |                      | 5                 | -   -                 | 3                    | ments:<br>ipply                         | State Standard      |                       | (eg. S-1 or GW-1)     | EDD Required: 🕙 N | Type: GIS Key                         | C to                                    |
| For Analytics Use Only Rev. 5 06/18/08           | Samples were:     | 2) Temp blank %  | 3) Perceived in proof condition | A) nH checked hv:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 5) Labels changed by:                    | of Labels CileCRed by: | Containor              | P=plastic G=plass                      | Container<br>umber/tvpe                                | <u>u</u> -          | )                             |                       |                      |                     | 0                  | 0                 | J                    | Caulk             | Gulk                  | Caulk V V            | Project Requirements:<br>*Fee may apply | Report Type: State: | P* X Level II* X MA   | Level III*            | D* Level IV* CT   | ] At B                                | *************************************** |
| 195 Commerce Way Suite E<br>Portsmouth, NH 03801 | ne (603)<br>(603) | Matrix Key:      | WP = Wipe                       | WW = Wastewater<br>SW = Surface Water                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | GW = Groundwater                         | S = Soil/Sludge        | 0 = 0il<br>E = Extract | Preservation                           | yerpsuoj<br>4CC<br>4SCO <sup>4</sup><br>4o C<br>Nubles | <br> <br> <br> <br> |                               |                       |                      |                     |                    |                   |                      |                   |                       | <b>&gt;</b>          |                                         | Rep                 | WCP<br>X              | CTRCP*                | *000<br>000       |                                       |                                         |
| ntal                                             | io                | Rabody Terrace   | 7                               | A THE REAL PROPERTY AND A THE | uite 180                                 |                        | Quote #                | ************************************** | Sample Analysis                                        | 50 808              | 4:16                          | 4:18                  | 9:30                 | 9:30                | 4.33               | 4:34              | 9:16                 | 4                 | 8-1                   | 215                  | tructions:                              | Soxhlet/PCB 8082    |                       |                       |                   |                                       |                                         |
| CHICA OF                                         | <u> </u>          | Proj. Name:      |                                 | Amy Wallace                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 35 New England Business Center Suite 180 | Andover, MA 01810      | -8150 PO#              | " Why war                              | Sample<br>Date                                         | 1-0378 3/1/10 8:50  |                               | Marine state          |                      |                     |                    |                   |                      | hhib 9880-        |                       |                      | Continent                               |                     | (TAT)                 | ,<br>,<br>,<br>,<br>, | 5 Days*           | al required                           | ****                                    |
| dinch.                                           | 5                 | Project#: 010980 | Company: Woodard &Curran        | Contact: Amy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Address: 35 New                          | Andover                | Phone: (978)S57-8150   | u sampler (Signature):                 | Station Identification                                 | راحا                | 10 TX- CBC- 1018-0379         | 50 TX- CBC- 1012-0380 | 36 TX-CBC- 1012-0381 | 2 1x- CPC-1018-0383 | 5 TX-CBC-1012-0383 | TX-CEC- 1018-0384 | 23 TX-CBCD-1018-0365 | TX- CBK-1018-0386 | 16 TX- CBK- 1018-0387 | 9.1x-CBK- 1019- 0388 | Email Results to:                       | jhamel@manad        | Turnaround Time (TAT) | 24hr*                 |                   | *Fee may apply, lab approval required | Applications April 19                   |

|                                                  |                                            | -{<br>>b;                   | 5<br>e                         | ツル<br>マヤ:                             | <i>U</i> -51                             | 17 - Kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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S-1 or GW-1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | EDD Required: (👫) N         | Type: GIS Key                  | Page & of 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| For Analytics Use Only Rev. 5 06/18/08           | Samples were:                              | 2) Temp blank C             | 3) Received in good condition/ | 4) pH checked hv:                     | 5) I ahels checked hv                    | . Company charge of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Cault               |                  | )<br>)                  |                     |                      | ٠,                    | Project Requirements:<br>*Fee may apply | Report Type:               |                      | P* Level III* ME                                                                                                                                                                                                                                                                                              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| 195 Commerce Way Suite E<br>Portsmouth, NH 03801 | Phone (603) 436-5111<br>Fax (603) 430-2151 | Matrix Key:<br>C = Concrete | WP = Wipe                      | WW = Wastewater<br>SW = Surface Water | GW = Groundwater                         | S = Soil/Sludge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| gravie                                           |                                            | Project#: (A) 09/80         | Company: Woodard &Curran       | Contact: Army Wallace                 | Address: 35 New England Bu               | Andover, MA 01810                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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|                     | 1) Shipped of hand-delivered | 2) Temp blank °C         |                          | ď                                        |                                                   |                   | Container Key            |                              | 1 <del>//310413</del>                         | Muter K                      | 2                    | J                     | Caulk                    | Z) Z                  | Caulk                   | Caulk               | Caulk                  | world                   | X WP                   | ウ つ dM X               | Project Requirements: *Fee may apply | Report Type:            | X Level II*               | CIRCP* Level III* ME DOD* Level IV* CT | Standard RI                                       |                                 |
|                     | Phone (603)<br>Fax (603) 4   | ACC Matrix Key:          | WP = Wipe                | WW = Wastewater SW = Surface Water       | GW = Groundwater<br>DW = Drinking Water           | S = Soil/Studge   | E = Extract              | Preservation                 | Analysis<br>inpres<br>flv03<br>flv03<br>flv03 | X                            |                      |                       |                          |                       |                         |                     |                        |                         |                        |                        |                                      | 8089                    | 200                       |                                        | 3/2/10                                            |                                 |
| environmental       |                              | Proj. Name: Peabody Terr | 7                        |                                          | s Center Suite 180                                |                   | Quote #                  | Accessor                     | Sample Sample Ana                             | 1830 PC                      | 1331                 | 1334                  | 1348                     | 134મ                  | 1346                    | 1351                | 1354                   | Ohhl                    | 1356                   | ↑ 85°E \               | Comments / Instructions:             | Soxhlet/PCB             | * Amber liters were (-) - | Detail Of the Detail                   | paper. Co                                         |                                 |
| analytics           |                              | Project#: 0/0980 Proj.   | Company: Woodard &Curran | Contact: Army Wallace                    | Address: 35 New England Business Center Suite 180 | Andover, MA 01810 | Phone: (978)557-8150 PO# | Sampler (Signature): (MMy wa | Station Identification                        | 2 PTX- CBCB-1013-6400 3/1/10 | PTX- CBC-111103-0401 | 9 PTX- CBC-111103-040 | 36 PTX - CBK-111103-0403 | # PTX-CBK-111103-0404 | \$ PTX- CBK-111103-0405 | OTX- CBK-11103-0406 | 9 PTX- CBK-111103-0407 | PTX- 18 CWKA-11103-0408 | 12 TX- CWK- 11103-0409 | 9-47x- CWK-111103-0410 |                                      | Shame @ wastastaran.com | Turnaround Time (TAT)     | 48hr*                                  | *Fee may apply; lab approval required             | Analytics\AEL Documents\AEL COC |

Chain Of Custody Form

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S-1 or GW-1) | FDD Required: (Y*) N                                      |             | PDF -                                 | Page 4 of 4                     |
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| 195 Commerce Way Suite E<br>Portsmouth, NH 03801 | Phone (603) 436-5111<br>Fax (603) 430-2151 | Matrix Key:<br>C = Concrete | WP = Wipe                          | WW = Wastewater<br>SW = Surface Water | GW = Groundwater                                  | S = Soil/Sludge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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|                                                  |                                            | 210980                      | Company: Woodard &Curran           | Contact: Arry Wallace                 | Address: 35 New England Business Center Suite 180 | Andover, MA 01810                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | shame @         | Turnaround Time (TAT)                 |                   | 24hr* 48hr* \ 72hr* \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | 10 Days     | *Fee may apply; lab approval required | Analytics\AEL Documents\AEL COC |

# ANALYTICS SAMPLE RECEIPT CHECKLIST



| . <del>_</del> _                                                              |                  |                         |            |
|-------------------------------------------------------------------------------|------------------|-------------------------|------------|
| aellab#: <u>65968</u>                                                         | COOLE            | R NUMBER:               | N/A        |
| PROJECT: Peabody Terrace                                                      | NUMBER           | OF COOLERS:             |            |
| PROJECT: Peabody Terrace                                                      | DATER            | ECEIVED:                | 3/2/10     |
|                                                                               |                  |                         |            |
| A: PRELIMINARY EXAMINATION:                                                   | DATE COOL        | ER OPENED:              | 0/2/10     |
| 1. Cooler received by(initials)                                               | Date F           | Received:               | 3/2/10     |
| 2. Circle one: Hand delivered                                                 | Shipped          |                         |            |
| 3. Did cooler come with a shipping slip?                                      |                  | <b>Y</b>                | NIN        |
| 3a. Enter carrier name and airbill number here:                               | _                |                         |            |
| 4. Were custody seals on the outside of cooler?  How many & where: Seal Date: | Seal Name:       | Y                       | N/A        |
| 5. Did the custody seals arrive unbroken and intact upon arrival?             |                  | Y                       | (N/R)      |
| 6. COC#:                                                                      |                  |                         | •          |
| 7. Were Custody papers filled out properly (ink, signed, etc)?                | •                | (v)                     | N          |
| 8. Were custody papers sealed in a plastic bag?                               |                  | Ġ                       | <b>N</b>   |
| 9. Did you sign the COC in the appropriate place?                             |                  | <b>(v</b> )             | N          |
| 10. Was the project identifiable from the COC papers?                         |                  | C                       | N          |
| 11. Was enough ice used to chill the cooler?                                  | Temp. of cooler: |                         | 4° C       |
| B. Log-In: Date samples were logged in:                                       | Ву:              | CG                      |            |
| 12. Type of packing in cooler (bubble wrap) popcorn)                          |                  | Ŷ                       | N          |
| 13. Were all bottles sealed in separate plastic bags?                         |                  | Ŷ                       | N          |
| 14. Did all bottles arrive unbroken and were labels in good condition?        | •                | Ø                       | N          |
| 15. Were all bottle labels complete(ID,Date,time,etc.)                        |                  | <b>(v)</b>              | ` <b>N</b> |
| 16. Did all bottle labels agree with custody papers?                          |                  | $\mathbf{\mathfrak{D}}$ | N          |
| 17. Were the correct containers used for the tests indicated:                 | •                | $\bigcirc$              | <b>N</b> . |
| 18. Were samples received at the correct pH?                                  |                  | Y                       | (N/A)      |
| 19. Was sufficient amount of sample sent for the tests indicated?             |                  | $\bigcirc$              | N.         |
| 20. Were bubbles absent in VOA samples?                                       |                  | Y                       | (N/A)      |
| If NO, List sample #'s:                                                       |                  |                         |            |
| 21. Laboratory labeling verified by (initials):                               |                  |                         | 3/2/10     |
| , maning remote by (minus).                                                   | ,                | Date:                   | 01410      |



195 Commerce Way Suite E Portsmouth, New Hampshire 03801 603-436-5111 Fax 603-430-2151 800-929-9906 www.analyticslab.com

March 22, 2010

Ms. Amy Wallace Woodard & Curran 35 NE Business Center Suite 180 Andover MA 01810

**RE:** Analytical Results Case Narrative

Analytics # 65979 Revision 1 Peabody Terrace Proj.# 210980

Dear Ms. Wallace;

Enclosed please find the analytical results for samples submitted for the above-mentioned project. The attached Cover Page lists the sample IDs, Lab tracking numbers and collection dates for the samples included in this deliverable.

Samples were analyzed for Polychlorinated Biphenyls (PCBs) by EPA Method 8082.

Revision 1: This report has been revised to narrate the loss of sample 65921-21 in the preparation laboratory.

Unless otherwise noted in the Non-conformance Summary listed below, all of the quality control (QC) criteria including initial calibration, calibration verification, surrogate recovery, holding time and method accuracy/precision for these analyses were within acceptable limits.

This Level II data package has been assembled in the following order:

Case Narrative/Non-Conformance Summary
Sample Log Sheet - Cover Page
PCB Form 1 Data Sheet for Samples and Blanks
Chromatograms
PCB Form 10 Confirmation Results
PCB Form 3 MS/MSD (LCS) Recoveries
Chain of Custody (COC) Forms

# QC NON-CONFORMANCE SUMMARY

Sample Receipt:

Two samples 65979-38 and 65979-60 had sample container labels that did not match the chain of custody (COC). The container label for 65979-38 was (PTB-CWW-11510-0457) while the COC listed (PTB-CWK-11510-0457). The client was contacted and instructed the laboratory that the sample label was correct. For sample 65979-60 the container label was (PTC-CBK-1332-049) while the COC listed (PTC-CBKQ-1332-0479). The client was contacted and instructed the laboratory that the COC was correct. The laboratory made the corrections as instructed.

# PCBs by EPA Method 8082:

No results were reported below the quantitation limit.

Due to a laboratory accident sample 65979-21 (PTC-CWD-1332-0440) was lost during the concentration step of the extraction. The sample could not be re-extracted as the sample was consumed. The client was notified via email of the accident. It is was agreed it would be discussed in the narrative.

Several samples (65979-1,65979-5,65979-8, 65979-9, 65979-10, 65979-11,65979-12, 65979-22, 65979-25, 65979-29, 65979-43, 65979-45, 65979-49, 65979-50 and 65979-61) required dilution due to the concentrations of PCBs in the samples.

The laboratory blank extracted 03/03/10 (B030310PSOX) had PCB 1254 detected at 763 ug/kg. All samples that had PCBs detected at <10X the level detected in the blank were re-extracted. Samples with results >10 the level detected in the laboratory blank were reported without qualification. The only sample extracted with this blank in this SDG was sample 65979-1 which had a result >10X the level detected in the blank.

Samples 65979-9, 65979-11, 65979-24 and 65979-25 had % difference between the two columns>40%. Results were flagged with a "P" and reported with a comment to this affect.

The laboratory control sample duplicate (LD030810PWB) had low recovery surrogate Decachlorobiphenyl (DCB) and PCB 1016 on both columns. Surrogate Tetrachloro-m-xylene (TCX) PCB 1260 recoveries were in control on both columns. In addition sample 65979-44 had low DCB recovery on column #1. Results were reported off of column #2 without qualification.

Two samples were selected for use for MS/MSDs (65979-32 and 65979-49) and could not be evaluated as concentrations of PCB 1254 in the parents samples was so high. The laboratory control samples were used to assess accuracy and precision for the batches.

The laboratory control sample (L030410PSOX2, RR) had high recoveries for PCB 1016 and PCB 1260 on column#2. The laboratory control sample duplicate (LD030410PSOX2) was in control for all analytes. Results were reported without qualification.

The continuing calibration standard (file# M22789SC) had low recovery for Decachlorobiphenyl (DCB) on column#2. Column#1 was in control for all analytes. Results were reported without qualification.

The continuing calibration standard (file# L15876SC) had low recovery for Decachlorobiphenyl (DCB) (84%) on column#1. Column#2 was in control for all analytes. Results were reported without qualification.

The continuing calibration standard (file# M22954SC) had high recovery for Tetrachloro-m-xylene (TCX) (119%) on column#2. Column#1 was in control for all analytes. Results were reported without qualification.

If you have any questions on these results, please do not hesitate to contact me.

Sincerely,

ANALYTICS Environmental Laboratory, LLC

Multiplication StepHen L. Knollmeyer Laboratory Director



195 Commerce Way Suite E Portsmouth, New Hampshire 03801 603-436-5111 Fax 603-430-2151 800-929-9906 www.analyticslab.com

Ms. Amy Wallace Woodard & Curran 35 NE Business Center Suite 180 Andover MA 01810 Report Number: 65979

Revision: Rev. 0

Re: Peabody Terrace

210980

Enclosed are the results of the analyses on your sample(s). Samples were received on 03 March 2010 and analyzed for the tests listed below. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. These results pertain to samples as received by the laboratory and for the analytical tests requested on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

| Lab Number | Sample Date | Station Location   | <u>Analysis</u>      | Comments |
|------------|-------------|--------------------|----------------------|----------|
| 65979-1    | 03/02/10    | PTB-CBC-1432-0420  | EPA 8082 (PCBs only) |          |
| 65979-2    | 03/02/10    | PTB-CBC-1432-0421  | EPA 8082 (PCBs only) |          |
| 65979-3    | 03/02/10    | PTB-CBCD-1432-0422 | EPA 8082 (PCBs only) |          |
| 65979-4    | 03/02/10    | PTB-CBC-1432-0423  | EPA 8082 (PCBs only) |          |
| 65979-5    | 03/02/10    | PTB-CBC-1432-0424  | EPA 8082 (PCBs only) |          |
| 65979-6    | 03/02/10    | PTB-CBC-1432-0425  | EPA 8082 (PCBs only) |          |
| 65979-7    | 03/02/10    | PTB-CBC-1432-0426  | EPA 8082 (PCBs only) |          |
| 65979-8    | 03/02/10    | PTB-CBK-1432-0427  | EPA 8082 (PCBs only) |          |
| 65979-9    | 03/02/10    | PTB-CBK-1531-0428  | EPA 8082 (PCBs only) |          |
| 65979-10   | 03/02/10    | PTC-CBK-1332-0429  | EPA 8082 (PCBs only) |          |
| 65979-11   | 03/02/10    | PTC-CBK-1332-0430  | EPA 8082 (PCBs only) |          |

Sample Receipt Exceptions: None

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Authorized signature ###

Stephen L. Knollmeyer Lab. Director

Date

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| Lab Number | Sample Date | Station Location   | <u>Analysis</u>      | <b>Comments</b> |
|------------|-------------|--------------------|----------------------|-----------------|
| 65979-12   | 03/02/10    | PTC-CBK-1332-0431  | EPA 8082 (PCBs only) |                 |
| 65979-13   | 03/02/10    | PTC-CBC-1332-0432  | EPA 8082 (PCBs only) |                 |
| 65979-14   | 03/02/10    | PTC-CBC-1332-0433  | EPA 8082 (PCBs only) |                 |
| 65979-15   | 03/02/10    | PTC-CBCD-1332-0434 | EPA 8082 (PCBs only) |                 |
| 65979-16   | 03/02/10    | PTC-CWK-1332-0435  | EPA 8082 (PCBs only) |                 |
| 65979-17   | 03/02/10    | PTC-CWKD-1332-0436 | EPA 8082 (PCBs only) |                 |
| 65979-18   | 03/02/10    | PTC-CWK-1332-0437  | EPA 8082 (PCBs only) |                 |
| 65979-19   | 03/02/10    | PTC-CWT-1332-0438  | EPA 8082 (PCBs only) |                 |
| 65979-20   | 03/02/10    | PTC-CWW-1332-0439  | EPA 8082 (PCBs only) |                 |
| 65979-21   | 03/02/10    | PTC-CWD-1332-0440  | EPA 8082 (PCBs only) |                 |
| 65979-22   | 03/02/10    | PTC-CBK-1332-0441  | EPA 8082 (PCBs only) |                 |

Sample Receipt Exceptions: None

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| Lab Number | Sample Date | Station Location   | <u>Analysis</u>      | <b>Comments</b> |
|------------|-------------|--------------------|----------------------|-----------------|
| 65979-23   | 03/02/10    | PTC-CWK-1332-0442  | EPA 8082 (PCBs only) |                 |
| 65979-24   | 03/02/10    | PTC-CWK-1332-0443  | EPA 8082 (PCBs only) |                 |
| 65979-25   | 03/02/10    | PTC-CBK-1332-0444  | EPA 8082 (PCBs only) |                 |
| 65979-26   | 03/02/10    | PTC-CWT-1332-0445  | EPA 8082 (PCBs only) |                 |
| 65979-27   | 03/02/10    | PTC-CWW-1332-0446  | EPA 8082 (PCBs only) |                 |
| 65979-28   | 03/02/10    | PTC-CWM-1332-0447  | EPA 8082 (PCBs only) |                 |
| 65979-29   | 03/02/10    | PTB-CBK-11510-0448 | EPA 8082 (PCBs only) |                 |
| 65979-30   | 03/02/10    | PTB-CBC-11510-0449 | EPA 8082 (PCBs only) |                 |
| 65979-31   | 03/02/10    | PTB-CBC-11510-0450 | EPA 8082 (PCBs only) |                 |
| 65979-32   | 03/02/10    | PTB-CBK-11510-0451 | EPA 8082 (PCBs only) |                 |
| 65979-33   | 03/02/10    | PTB-CBK-11510-0452 | EPA 8082 (PCBs only) |                 |

Sample Receipt Exceptions: None

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| Lab Number | Sample Date | Station Location   | <u>Analysis</u>      | <u>Comments</u> |
|------------|-------------|--------------------|----------------------|-----------------|
| 65979-34   | 03/02/10    | PTB-CWK-11510-0453 | EPA 8082 (PCBs only) |                 |
| 65979-35   | 03/02/10    | PTB-CWK-11510-0454 | EPA 8082 (PCBs only) |                 |
| 65979-36   | 03/02/10    | PTB-CWK-11510-0455 | EPA 8082 (PCBs only) |                 |
| 65979-37   | 03/02/10    | PTB-CWK-11510-0456 | EPA 8082 (PCBs only) |                 |
| 65979-38   | 03/02/10    | PTB-CWW-11510-0457 | EPA 8082 (PCBs only) |                 |
| 65979-39   | 03/02/10    | PTB-CWW-11510-0458 | EPA 8082 (PCBs only) |                 |
| 65979-40   | 03/02/10    | PTB-CWT-11510-0459 | EPA 8082 (PCBs only) |                 |
| 65979-41   | 03/02/10    | PTB-CWT-11510-0460 | EPA 8082 (PCBs only) |                 |
| 65979-42   | 03/02/10    | PTB-CWD-11510-0461 | EPA 8082 (PCBs only) |                 |
| 65979-43   | 03/02/10    | PTB-CWM-11510-0462 | EPA 8082 (PCBs only) |                 |
| 65979-44   | 03/02/10    | PTB-CBCQ-1432-0463 | EPA 8082 (PCBs only) |                 |

Sample Receipt Exceptions: None

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| Lab Number | Sample Date | Station Location    | <u>Analysis</u>      | Comments |
|------------|-------------|---------------------|----------------------|----------|
| 65979-45   | 03/02/10    | PTX-CBK-111302-0464 | EPA 8082 (PCBs only) |          |
| 65979-46   | 03/02/10    | PTX-CBC-111302-0465 | EPA 8082 (PCBs only) |          |
| 65979-47   | 03/02/10    | PTX-CBC-111302-0466 | EPA 8082 (PCBs only) |          |
| 65979-48   | 03/02/10    | PTX-CBK-111302-0467 | EPA 8082 (PCBs only) |          |
| 65979-49   | 03/02/10    | PTX-CBK-111302-0468 | EPA 8082 (PCBs only) |          |
| 65979-50   | 03/02/10    | PTX-CWK-111302-0469 | EPA 8082 (PCBs only) |          |
| 65979-51   | 03/02/10    | PTX-CWK-111302-0470 | EPA 8082 (PCBs only) |          |
| 65979-52   | 03/02/10    | PTX-CWK-111302-0471 | EPA 8082 (PCBs only) |          |
| 65979-53   | 03/02/10    | PTX-CWK-111302-0472 | EPA 8082 (PCBs only) |          |
| 65979-54   | 03/02/10    | PTX-CWW-111302-0473 | EPA 8082 (PCBs only) |          |
| 65979-55   | 03/02/10    | PTX-CWT-111302-0474 | EPA 8082 (PCBs only) |          |

Sample Receipt Exceptions: None

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| Lab Number | Sample Date | Station Location    | <u>Analysis</u>             | <b>Comments</b> |
|------------|-------------|---------------------|-----------------------------|-----------------|
| 65979-56   | 03/02/10    | PTX-CWM-111302-0475 | EPA 8082 (PCBs only)        |                 |
| 65979-57   | 03/02/10    | PTX-CWW-111302-0476 | EPA 8082 (PCBs only)        |                 |
| 65979-58   | 03/02/10    | PTX-CWT-111302-0477 | EPA 8082 (PCBs only)        |                 |
| 65979-59   | 03/02/10    | PTX-CWM-111302-0478 | EPA 8082 (PCBs only)        |                 |
| 65979-60   | 03/02/10    | PTC-CBKQ-1332-0479  | EPA 8082 (PCBs only)        |                 |
| 65979-61   | 03/02/10    | PTX-CBK-111302-0480 | Electronic Data Deliverable |                 |
|            | 03/02/10    | PTX-CBK-111302-0480 | EPA 8082 (PCBs only)        |                 |

Sample Receipt Exceptions: None

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Stephen L. Knollmeyer Lab. Director

Date

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### **Surrogate Compound Limits**

|                                    | Matrix:<br>Units: | Aqueous<br>% Recovery | Solid<br>% Recovery | Method                      |
|------------------------------------|-------------------|-----------------------|---------------------|-----------------------------|
| Volatile Organic Compounds - Dr    | inking Wa         | ter                   |                     |                             |
| 1,4-Difluorobenzene                | J                 | 70-130                |                     | EPA 524.2                   |
| Bromofluorobenzene                 |                   | 70-130                |                     | 2111222                     |
| 1,2-Dichlorobenzene-d4             |                   | 70-130                |                     |                             |
| Volatile Organic Compounds         |                   |                       |                     |                             |
| 1,2-Dichloroethane-d4              |                   | 70-120                | 70-120              | EPA 624/8260B               |
| Toluene-d8                         |                   | 85-120                | 85-120              |                             |
| Bromofluorobenzene                 |                   | 75-120                | 75-120              |                             |
| Semi-Volatile Organic Compounds    |                   |                       |                     |                             |
| 2-Fluorophenol                     |                   | 20-110                | 35-105              | EPA 625/8270C               |
| d5-Phenol                          |                   | 15-110                | 40-100              |                             |
| d5-nitrobenzene                    |                   | 40-110                | 35-100              |                             |
| 2-Fluorobiphenyl                   |                   | 50-110                | 45-105              |                             |
| 2,4,6-Tribromophenol               |                   | 40-110                | 40-125              |                             |
| d14-p-terphenyl                    |                   | 50-130                | 30-125              |                             |
| PAK's by SIM                       |                   |                       |                     | ·                           |
| d5-nitrobenzene                    |                   | 21-110                | 35-110              | EPA 8270C                   |
| 2-Fluorobiphenyl                   |                   | 36-121                | 45-105              | . ——————                    |
| d14-p-terphenyl                    |                   | 33-141                | 30-125              |                             |
| Pesticides and PCBs                |                   |                       | ,                   |                             |
| 2,4,5,6-Tetrachloro-m-xylene (TCX) |                   | 46-122                | 40-130              | EPA 608/8082                |
| Decachlorobiphenyl (DCB)           |                   | 40-135                | 40-130              |                             |
| Herbicides                         |                   |                       |                     |                             |
| Dichloroacetic acid (DCAA0         |                   | 30-150                | 30-150              |                             |
| Gasoline Range Organics/TPH Gaso   | line              |                       |                     |                             |
| Trifluorotoluene TFT (FID)         |                   | 60-140.               | 60-140              | MEDEP 4217/EPA 8015         |
| Bromofluorobenzene (BFB) (FID)     |                   | 60-140                | 60-140              |                             |
| Trifluorotoluene TFT (PID)         |                   | 60-140                | 60-140              |                             |
| Bromofluorobenzene (BFB) (PID)     |                   | 60-140                | 60-140              |                             |
| Diesel Range Organics/TPH Diesel   |                   |                       |                     |                             |
| m-terphenyl                        |                   | 60-140                | 60-140              | MEDEP 4125/EPA 8015/CT ETPH |



## PCB DATA SUMMARIES



CLIENT SAMPLE ID

Project Name:

Peabody Terrace

Project Number:

210980

Field Sample ID:

Lab QC

March 20, 2010

#### SAMPLE DATA

Lab Sample ID:

B030310PSOX

Matrix:

Soil

1.0

Percent Solid:

N/A

**Dilution Factor:** 

**Collection Date:** 

Lab Receipt Date:

**Extraction Date:** 

03/03/10

**Analysis Date:** 

03/04/10

|                  | PCB ANALYTICAL RESULTS                                |                  |  |  |  |  |
|------------------|-------------------------------------------------------|------------------|--|--|--|--|
| COMPOUND         | Quantitation<br>Limit μg/kg                           | Results<br>μg/kg |  |  |  |  |
| PCB-1016         | 33                                                    | U                |  |  |  |  |
| PCB-1221         | 33                                                    | U                |  |  |  |  |
| PCB-1232         | 33                                                    | U                |  |  |  |  |
| PCB-1242         | 33                                                    | U                |  |  |  |  |
| PCB-1248         | 33                                                    | U                |  |  |  |  |
| PCB-1254         | 33                                                    | 763              |  |  |  |  |
| PCB-1260         | 33                                                    | U                |  |  |  |  |
|                  |                                                       |                  |  |  |  |  |
|                  |                                                       |                  |  |  |  |  |
|                  | Surrogate Standard Recovery                           |                  |  |  |  |  |
|                  | 2,4,5,6-Tetrachloro-m-xylene 90 Decachlorobiphenyl 66 | %<br>%           |  |  |  |  |
| U=Undetected J=1 | Estimated E=Exceeds Calibration Range                 | B=Detected in    |  |  |  |  |

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

Results are expressed on a dry weight basis.

PCB Report

Authorized signature Whilelall

## PCB COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M

SDG:

GC Column #1: STX-CLPesticides I

Sample: B030310PSOX

Column ID: 0,25 mm

Data File: M22712B.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 10.0

Column ID: 0.25 mm

Column #1 Column #2

|          | O O TOTAL IN I        | OOTGIIII 112          |      |   |
|----------|-----------------------|-----------------------|------|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD  | # |
| PCB 1254 | 670                   | 763                   | 12.9 |   |

# Column to be used to flag RPD values greater than QC limit of 40%

\* Values outside QC limits

Comments: See of memo

73810

(Not Reviewed)

Data Path : C:\msdchem\1\DATA\030410-M\

Data File: M22712B.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

4 Mar 2010 ™cq On 3:53 pm

derator : RM

Sample : B030310PSOX Misc : SOIL, SOML FV

ALS Vial Sample Multiplier: 1 : 85

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 05 09:54:21 2010

Quant Method: C:\msdchem\1\METHODS\54SP020410.M

Quant Title

QLast Update : Fri Feb 05 08:08:17 2010

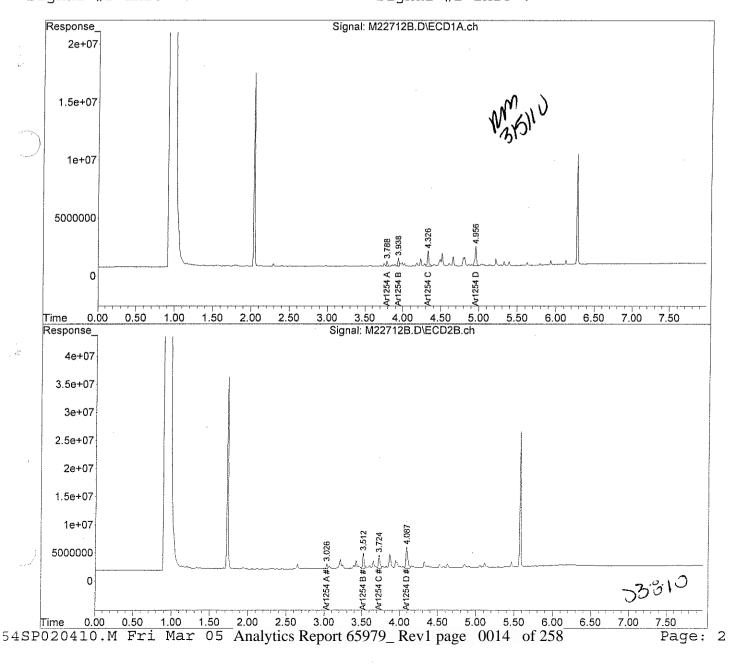
Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase : Signal #1 Info

Signal #2 Phase: Signal #2 Info:





CLIENT SAMPLE ID

Project Name:

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

Lab QC

March 12, 2010

SAMPLE DATA

Lab Sample ID:

B020810PAS RR

Matrix:

Soil

1.0

Percent Solid:

N/A

**Dilution Factor:** 

**Collection Date:** 

Lab Receipt Date:

**Extraction Date:** 

02/08/10 03/05/10

Analysis Date:

| PCB ANALYTICAL RESULTS |                                   |       |               |                  |
|------------------------|-----------------------------------|-------|---------------|------------------|
| COMPOUND               | Quantitation<br>Limit $\mu$ g/kg  |       |               | Results<br>μg/kg |
| PCB-1016               | 33                                |       |               | U                |
| PCB-1221               | 33                                |       |               | U                |
| PCB-1232               | 33                                |       |               | U                |
| PCB-1242               | 33                                |       |               | U                |
| PCB-1248               | 33                                |       |               | U                |
| PCB-1254               | 33                                |       |               | U                |
| PCB-1260               | 33                                |       |               | U                |
|                        |                                   |       |               |                  |
|                        | Surrogate Standard Recove         | гу    |               |                  |
|                        | 2,4,5,6-Tetrachloro-m-xylene      | 87    | %             |                  |
|                        | Decachlorobiphenyl                | 69    | %             |                  |
| I = I Indetected       | J=Estimated E=Exceeds Calibration | Range | B=Detected in |                  |

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

Results are expressed on a dry weight basis.

PÇB Report

Authorized signature Mylllull

(QT Reviewed)

Data Path : C:\msdchem\1\DATA\030510-M\

Data File: M22790B.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Aca On 5 Mar 2010 5:27 pm

Operator : RM

Sample : B020810PAS, RR2, , A/C

Misc : SOIL

ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 08 13:18:35 2010

Quant Method : C:\msdchem\1\METHODS\PCB020410.M

Quant Title : Aroclor 1016/1260

QLast Update : Thu Feb 04 11:18:55 2010

Response via : Initial Calibration

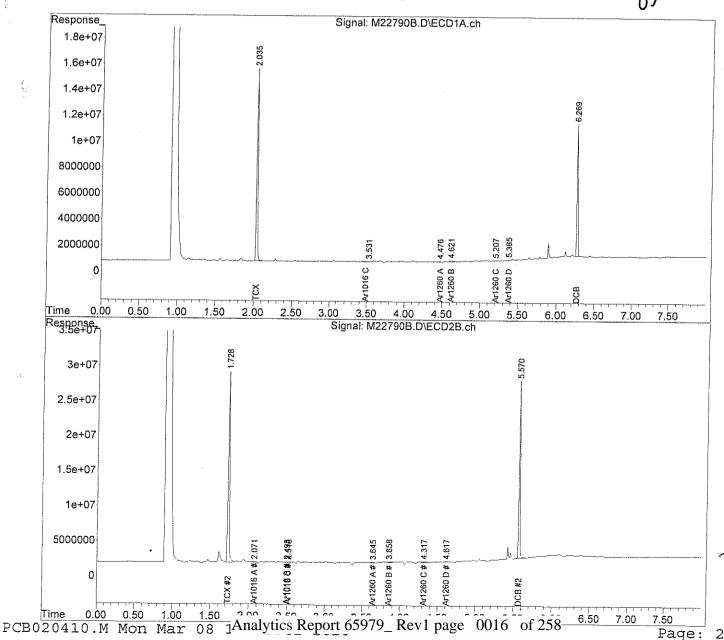
Integrator: ChemStation

Volume Inj.

Signal #1 Phase : Signal #1 Info

Signal #2 Phase:

Signal #2 Info :





CLIENT SAMPLE ID

**Project Name:** 

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

Lab QC

March 12, 2010

### SAMPLE DATA

Lab Sample ID:

B030510PSOX

Matrix:

Soil

Percent Solid:

N/A

**Dilution Factor:** 

1.0

**Collection Date:** 

Lab Receipt Date:

**Extraction Date:** 

**Analysis Date:** 

03/05/10

03/08/10

|              | PCB ANALYTICAL RESULTS                                |                  |  |  |  |  |
|--------------|-------------------------------------------------------|------------------|--|--|--|--|
| COMPOUND     | Quantitation<br>Limit $\mu$ g/kg                      | Results<br>μg/kg |  |  |  |  |
| PCB-1016     | 33                                                    | U                |  |  |  |  |
| PCB-1221     | 33                                                    | U                |  |  |  |  |
| PCB-1232     | 33                                                    | U                |  |  |  |  |
| PCB-1242     | 33                                                    | U                |  |  |  |  |
| PCB-1248     | 33                                                    | U                |  |  |  |  |
| PCB-1254     | 33                                                    | U                |  |  |  |  |
| PCB-1260     | 33                                                    | U                |  |  |  |  |
|              |                                                       |                  |  |  |  |  |
|              | Surrogate Standard Recovery                           |                  |  |  |  |  |
|              | 2,4,5,6-Tetrachloro-m-xylene 98 Decachlorobiphenyl 75 | %<br>%           |  |  |  |  |
| U=Undetected | J=Estimated E=Exceeds Calibration Range               | B=Detected in    |  |  |  |  |

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

Results are expressed on a dry weight basis.

PCB Report

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\030810-M\

Data File: M22843B.D

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On 8 Mar 2010 1:48 pm

Operator : JK

12

\_3

Sample : B030510PSOX

Misc : SOIL

ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 09 13:23:11 2010

Quant Method: C:\msdchem\1\METHODS\PCB020410.M

Quant Title : Aroclor 1016/1260

QLast Update : Thu Feb 04 11:18:55 2010

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. Signal #1 Phase :

Signal #1 Info

Signal #2 Phase:

13.05.10 Signal #2 Info :

Response Signal: M22843B.D\ECD1A,ch 2e+07 2.033 1.5e+07 1e+07 5000000 5.216 Ar1260 C 0 4r1016 C Ar1260 D Time 0.00 0.50 1.00 1.50 2.00 2.50 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.50 Response\_ Signal: M22843B.D\ECD2B.ch 3.5e+07 3e+07 2.5e+07 2e+07 1.5e+07 1e+07 5000000 Ar1260 C # Ar1260 A# Ar1260 B# 0 DCB #2 0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.50 0.00 5.00 6.50 7.50 PCB020410.M Tue Mar 09 13:23:12 2010 Page: 2

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CLIENT SAMPLE ID

Project Name:

Peabody Terrace

Project Number:

210980

Field Sample ID:

Lab QC

March 10, 2010

#### SAMPLE DATA

Lab Sample ID:

B030510PSOX RR

Matrix:

Soil

Percent Solid:

N/A

**Dilution Factor:** 

1.0

**Collection Date:** 

Lab Receipt Date: **Extraction Date:** 

03/05/10

Analysis Date:

03/08/10

| PCB ANALYTICAL RESULTS |                                         |                  |  |  |  |
|------------------------|-----------------------------------------|------------------|--|--|--|
| COMPOUND               | Quantitation<br>Limit μg/kg             | Results<br>μg/kg |  |  |  |
| PCB-1016               | 33                                      | U                |  |  |  |
| PCB-1221               | 33                                      | U                |  |  |  |
| PCB-1232               | 33                                      | U                |  |  |  |
| PCB-1242               | 33                                      | U                |  |  |  |
| PCB-1248               | 33                                      | U                |  |  |  |
| PCB-1254               | 33                                      | U                |  |  |  |
| PCB-1260               | 33                                      | U                |  |  |  |
|                        |                                         |                  |  |  |  |
|                        |                                         |                  |  |  |  |
|                        | Surrogate Standard Recovery             |                  |  |  |  |
|                        | 2,4,5,6-Tetrachloro-m-xylene 98         | %                |  |  |  |
|                        | Decachlorobiphenyl 76                   | %                |  |  |  |
| U=Undetected           | J=Estimated E=Exceeds Calibration Range | B=Detected in    |  |  |  |

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

Results are expressed on a dry weight basis.

PCB Report

Authorized signature Mullall

Quantitation Report (QT Reviewed)

Data Path: C:\msdchem\1\DATA\030810-M\

Data File: M22857B.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

8 Mar 2010 4:09 pm Acq On

Operator : JK

Ž,

: B030510PSOX,RR Sample

Misc : SOIL

Sample Multiplier: 1 ALS Vial : 9

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 09 14:47:20 2010

Quant Method: C:\msdchem\1\METHODS\PCB020410.M

Quant Title : Aroclor 1016/1260

QLast Update : Thu Feb 04 11:18:55 2010

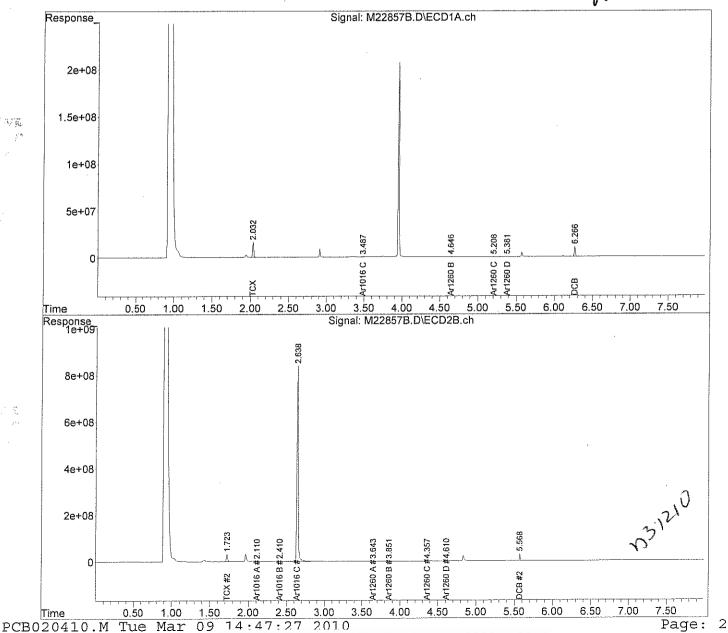
Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #2 Phase: Signal #1 Phase :

Signal #2 Info : Signal #1 Info



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Peabody Terrace

210980

Lab QC

Ms. Amy Wallace Woodard & Curran 35 NE Business Center Suite 180 Andover MA 01810

Project Name:

**Project Number:** 

Field Sample ID:

CLIENT SAMPLE ID

### March 12, 2010 SAMPLE DATA

Lab Sample ID:

B030810PW

Matrix:

Aqueous

Percent Solid:

N/A

**Dilution Factor:** 

1.0

Collection Date:

Lab Receipt Date:

**Extraction Date:** 

03/08/10

**Analysis Date:** 

03/08/10

| F                                 | PCB ANALYTICAL RESULTS       |                 |  |  |  |
|-----------------------------------|------------------------------|-----------------|--|--|--|
| COMPOUND                          | Quantitation Limit $\mu$ g/L | Results<br>μg/L |  |  |  |
| PCB-1016                          | 0.2                          | U               |  |  |  |
| PCB-1221                          | 0.2                          | U               |  |  |  |
| PCB-1232                          | 0.2                          | U               |  |  |  |
| PCB-1242                          | 0.2                          | U               |  |  |  |
| PCB-1248                          | 0.2                          | U               |  |  |  |
| PCB-1254                          | 0.2                          | U               |  |  |  |
| PCB-1260                          | 0.2                          | U               |  |  |  |
|                                   |                              |                 |  |  |  |
|                                   |                              |                 |  |  |  |
| <u>s</u>                          | urrogate Standard Recovery   |                 |  |  |  |
| 2,4,5,6-Tetrachloro-m-xylene 69 % |                              |                 |  |  |  |

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in

Decachlorobiphenyl

COMMENTS:

PCB Report

%

53

Authorized signature

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\030810-L\

Data File: L15819B.D

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Sample Multiplier: 1

8 Mar 10 3:18 pm Acq On

Operator : MG

Sample : B030810PW

Misc

ALS Vial

: 13

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: Mar 08 15:59:28 2010

Quant Method : C:\msdchem\1\METHODS\PB030210.M

Quant Title : Aroclor 1016/1260

QLast Update : Wed Mar 03 10:27:55 2010

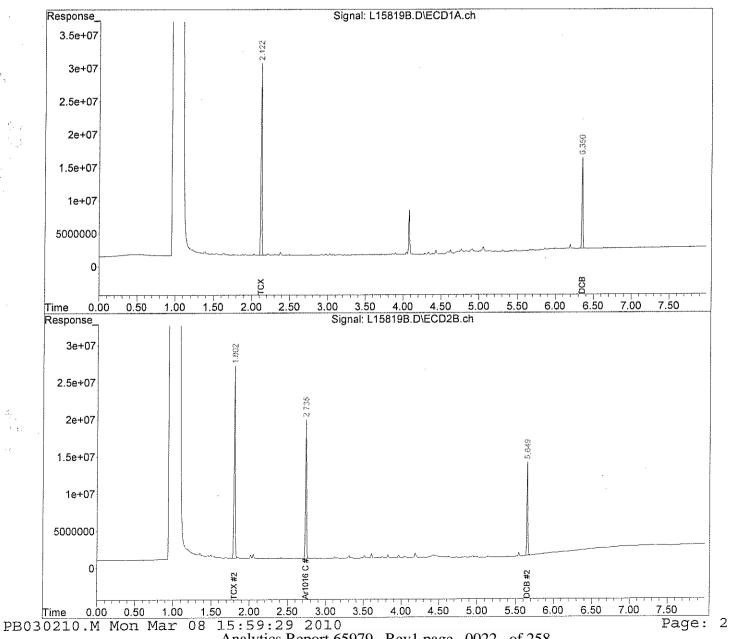
Response via: Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore

Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um film



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53.810



CLIENT SAMPLE ID

Project Name:

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

Lab QC

March 20, 2010

#### SAMPLE DATA

Lab Sample ID:

B030410PSOX RR

Matrix:

Soil

Percent Solid:

N/A

Dilution Factor:

1.0

Collection Date: Lab Receipt Date:

**Extraction Date:** 

03/04/10

**Analysis Date:** 

03/08/10

|                 | PCB ANALYTICAL RESULTS                                |                  |  |  |  |  |
|-----------------|-------------------------------------------------------|------------------|--|--|--|--|
| COMPOUND        | Quantitation<br>Limit μg/kg                           | Results<br>μg/kg |  |  |  |  |
| PCB-1016        | 33                                                    | U                |  |  |  |  |
| PCB-1221        | 33                                                    | U                |  |  |  |  |
| PCB-1232        | 33                                                    | U                |  |  |  |  |
| PCB-1242        | 33                                                    | U                |  |  |  |  |
| PCB-1248        | 33                                                    | U                |  |  |  |  |
| PCB-1254        | 33                                                    | U                |  |  |  |  |
| PCB-1260        | 33                                                    | U                |  |  |  |  |
|                 |                                                       |                  |  |  |  |  |
|                 | Surrogate Standard Recovery                           |                  |  |  |  |  |
|                 | 2,4,5,6-Tetrachloro-m-xylene 91 Decachlorobiphenyl 69 | %<br>%           |  |  |  |  |
| U=Undetected J= | Estimated E=Exceeds Calibration Range                 | B=Detected in    |  |  |  |  |

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results

Results are expressed on a dry weight basis.

PCB Report

Authorized signature Ayelellell

53810

Data Path : C:\msdchem\1\DATA\030810-L\

Data File: L15828.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

8 Mar 10 4:52 pm Acq On

Operator : MG

: B030410PSOX, RR Sample

Misc

ALS Vial Sample Multiplier: 1 : 3

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: Mar 08 18:14:25 2010

Quant Method : C:\msdchem\1\METHODS\PB030210.M

Quant Title : Aroclor 1016/1260

QLast Update: Wed Mar 03 10:27:55 2010

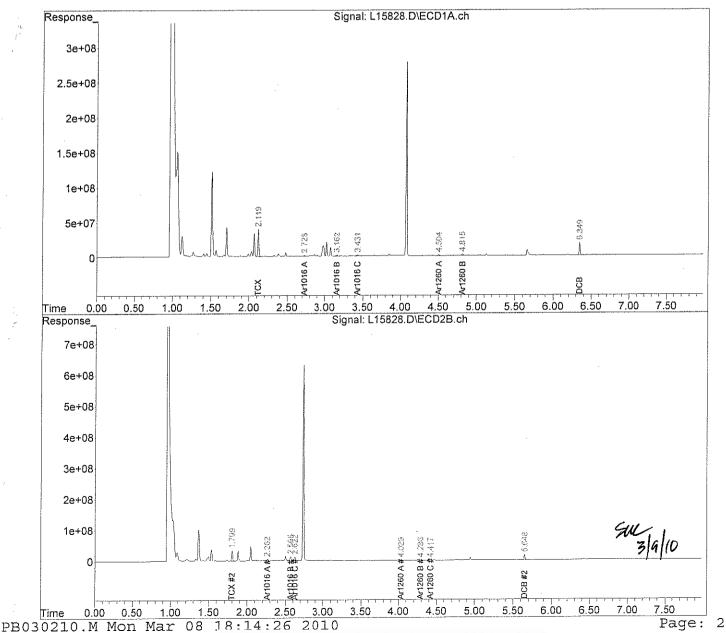
Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 3 ul

Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore

Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um film



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CLIENT SAMPLE ID

Project Name:

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

Lab QC

March 12, 2010 SAMPLE DATA

Lab Sample ID:

B030810PW RR

Matrix:

Wipe

Percent Solid:

N/A

Dilution Factor:

1.0

Collection Date:

Lab Receipt Date:

**Extraction Date:** 

03/08/10

**Analysis Date:** 

03/09/10

| PCB ANALYTICAL RESULTS |                                                      |               |
|------------------------|------------------------------------------------------|---------------|
| COMPOUND               | Quantitation Results Limit $\mu$ g/wipe $\mu$ g/wipe |               |
| PCB-1016               | 0.5                                                  | U             |
| PCB-1221               | 0.5                                                  | U             |
| PCB-1232               | 0.5                                                  | U             |
| PCB-1242               | 0.5                                                  | U             |
| PCB-1248               | 0.5                                                  | U             |
| PCB-1254               | 0.5                                                  | U             |
| PCB-1260               | 0.5                                                  | U             |
|                        |                                                      |               |
|                        |                                                      |               |
|                        | Surrogate Standard Recovery                          |               |
|                        | 2,4,5,6-Tetrachloro-m-xylene 65                      | %             |
|                        | Decachlorobiphenyl 52                                | %             |
| U=Undetected .         | J=Estimated E=Exceeds Calibration Range              | B=Detected in |

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report

Authorized signature <u>Applellul</u>

73.9.10

Data Path : C:\msdchem\1\DATA\030910-L\

Data File: L15865B.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

9 Mar 10 10:59 am Acq On

Operator : MG

B030810PW, RR Sample

Misc

ALS Vial Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: Mar 09 11:33:56 2010

Quant Method: C:\msdchem\1\METHODS\PB030210.M

Quant Title : Aroclor 1016/1260

QLast Update : Wed Mar 03 10:27:55 2010

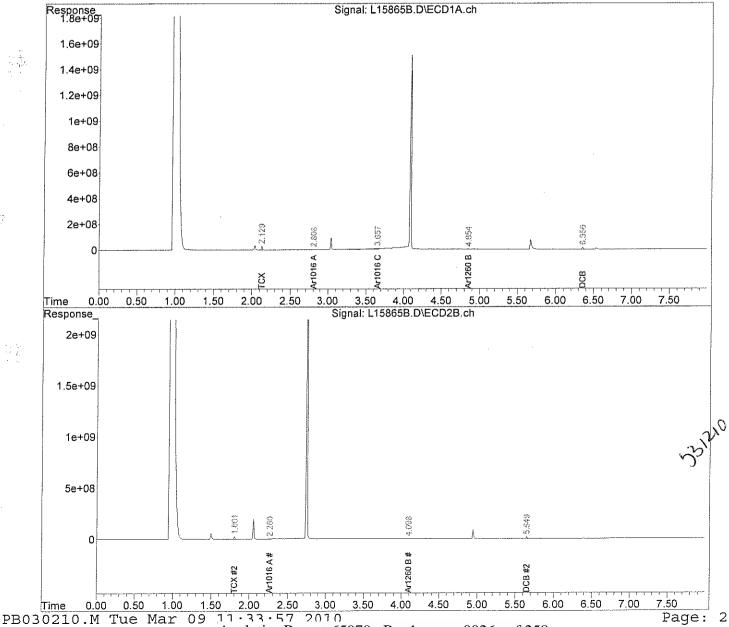
Response via: Initial Calibration

Integrator: ChemStation

Volume Inj. : 3 ul

Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore

Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um film



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CLIENT SAMPLE ID

Project Name:

Peabody Terrace

Project Number:

210980

Field Sample ID:

Lab QC

March 12, 2010 SAMPLE DATA

Lab Sample ID:

B030810PW RR 2

Matrix:

Soil

Percent Solid:

N/A

**Dilution Factor:** 

1.0

**Collection Date:** 

Lab Receipt Date:

**Extraction Date:** 

03/08/10

Analysis Date:

03/09/10

| PCB ANALYTICAL RESULTS |                                                       |                  |
|------------------------|-------------------------------------------------------|------------------|
| COMPOUND               | Quantitation<br>Limit $\mu$ g/kg                      | Results<br>μg/kg |
| PCB-1016               | 33                                                    | U                |
| PCB-1221               | 33                                                    | U                |
| PCB-1232               | 33                                                    | U                |
| PCB-1242               | 33                                                    | U                |
| PCB-1248               | 33                                                    | U                |
| PCB-1254               | 33                                                    | U                |
| PCB-1260               | 33                                                    | U                |
|                        |                                                       |                  |
|                        |                                                       |                  |
|                        | Surrogate Standard Recovery                           |                  |
|                        | 2,4,5,6-Tetrachloro-m-xylene 65 Decachlorobiphenyl 53 | %                |
| U=Undetected J=        | Estimated E=Exceeds Calibration Range                 | B=Detected in    |

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

Results are expressed on a dry weight basis.

PCB Report

Authorized signature Mulablu

Data Path : C:\msdchem\1\DATA\030910-L\

Data File : L15884B.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

9 Mar 10 5:36 pm Acq On

Operator : MG

Sample B030810PW, RR2

Misc

ALS Vial Sample Multiplier: 1

Integration File signal 1: autoint1.e

Integration File signal 2: autoint2.e Quant Time: Mar 10 08:34:08 2010

Quant Method: C:\msdchem\1\METHODS\PB030210.M

Quant Title : Aroclor 1016/1260

QLast Update: Wed Mar 03 10:27:55 2010

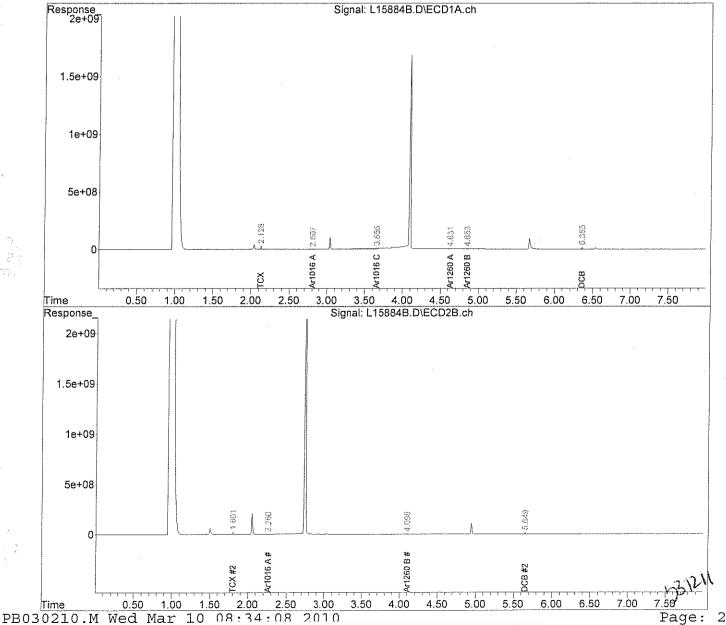
Response via: Initial Calibration

Integrator: ChemStation

Volume Inj. : 3 ul

Signal #1 Phase: DB-1701 Widebore Signal #2 Phase: DB-5 Widebore

Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um film



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23.10.10



CLIENT SAMPLE ID

Project Name:

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

Lab QC

March 11, 2010 SAMPLE DATA

Lab Sample ID:

B030410PSOX2 RR

Matrix:

Wipe

N/A

Percent Solid: **Dilution Factor:** 

1.0

**Collection Date:** 

Lab Receipt Date:

**Extraction Date:** 

03/04/10

**Analysis Date:** 

03/09/10

| PCB ANALYTICAL RESULTS |                                                      |               |
|------------------------|------------------------------------------------------|---------------|
| COMPOUND               | Quantitation Results Limit $\mu$ g/wipe $\mu$ g/wipe |               |
| PCB-1016               | 0.5                                                  | U             |
| PCB-1221               | 0.5                                                  | U             |
| PCB-1232               | 0.5                                                  | U             |
| PCB-1242               | 0.5 U                                                |               |
| PCB-1248               | 0.5 U                                                |               |
| PCB-1254               | 0.5 U                                                |               |
| PCB-1260               | 0.5 U                                                |               |
|                        |                                                      |               |
|                        |                                                      |               |
|                        | Surrogate Standard Recovery                          |               |
|                        | 2,4,5,6-Tetrachloro-m-xylene 102                     | %             |
|                        | Decachlorobiphenyl 82                                | %             |
| U=Undetected .         | J=Estimated E=Exceeds Calibration Range              | B=Detected in |

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report



#### Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\030910-M\

Data File: M22928B.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

9 Mar 2010 4:57 pm

Operator : JK

Sample : B030410PSOX2, RR, , A/C

Misc : SOIL

ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 10 11:34:56 2010

Quant Method: C:\msdchem\1\METHODS\PCB020410.M

Quant Title : Aroclor 1016/1260

QLast Update: Thu Feb 04 11:18:55 2010 Response via: Initial Calibration

Integrator: ChemStation

Volume Inj.

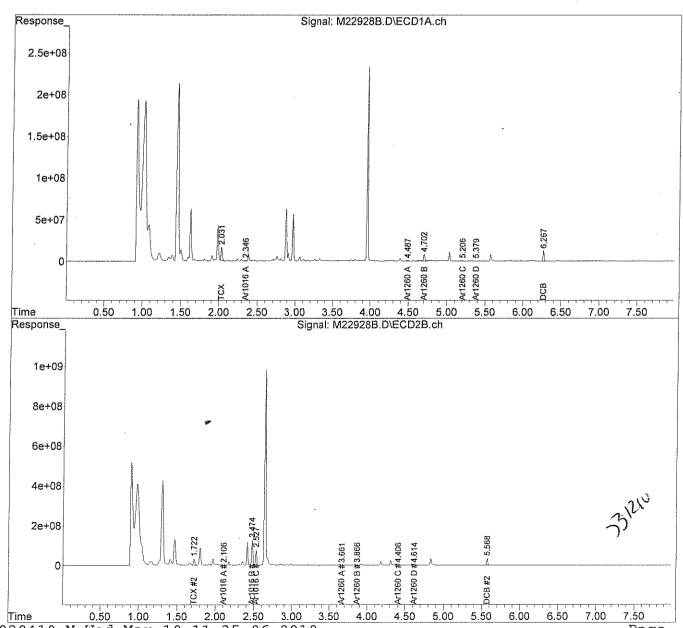
Signal #1 Phase : Signal #1 Info

350

Ĭ.

Signal #2 Phase:

Signal #2 Info :



11.25.06 2010 PCB020410.M Wed Mar 1.0 Analytics Report 65979\_ Rev1 page 0030 of 258 Page: 2



CLIENT SAMPLE ID

Project Name:

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

Lab QC

March 11, 2010 SAMPLE DATA

Lab Sample ID:

B030410PSOX2 RR

Matrix:

Soil

Percent Solid:

N/A

**Dilution Factor:** 

1.0

Collection Date:

Lab Receipt Date:

**Extraction Date:** 

03/04/10

Analysis Date:

03/09/10

| PCB ANALYTICAL RESULTS      |                                                         |                  |
|-----------------------------|---------------------------------------------------------|------------------|
| COMPOUND                    | Quantitation<br>Limit $\mu$ g/kg                        | Results<br>μg/kg |
| PCB-1016                    | 33                                                      | U                |
| PCB-1221                    | 33                                                      | Ŭ                |
| PCB-1232                    | 33                                                      | U                |
| PCB-1242                    | 33                                                      | U                |
| PCB-1248                    | 33                                                      | Ŭ                |
| PCB-1254                    | 33 U                                                    |                  |
| PCB-1260                    | 33                                                      | Ŭ                |
|                             |                                                         |                  |
|                             |                                                         |                  |
| Surrogate Standard Recovery |                                                         |                  |
|                             | 2,4,5,6-Tetrachloro-m-xylene 98  Decachlorobiphenyl 80  | %                |
| U=Undetected                | l J=Estimated E=Exceeds Calibration Range B=Detected in |                  |

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

Results are expressed on a dry weight basis.

PCB Report

Quantitation Report (QT Reviewed)

Data Path: C:\msdchem\1\DATA\030910-M\

Data File: M22942B.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

9 Mar 2010 Acq On 7:18 pm :

1. Operator : JK

: B030410PSOX2, RR2, ,A/C Sample

Misc : SOIL

Sample Multiplier: 1 ALS Vial

Integration File signal 1: events.e Integration File signal 2: events2.e Quant Time: Mar 10 13:57:55 2010

Quant Method : C:\msdchem\1\METHODS\PCB020410.M

Quant Title : Aroclor 1016/1260

QLast Update : Thu Feb 04 11:18:55 2010

Response via: Initial Calibration

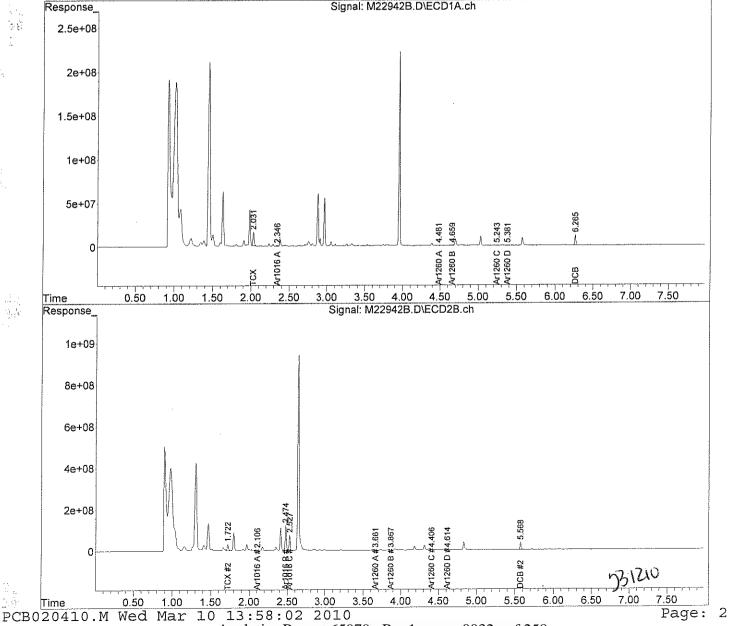
Integrator: ChemStation

Volume Inj. Signal #1 Phase :

36

Signal #2 Phase:

3.10.10 Signal #1 Info Signal #2 Info : Signal: M22942B,D\ECD1A.ch





CLIENT SAMPLE ID

Project Name:

Peabody Terrace

Project Number:

210980

Field Sample ID:

Lab QC

March 11, 2010 SAMPLE DATA

Lab Sample ID:

B030510PSOX2 RR

Matrix:

Wipe

Percent Solid:

N/A

Dilution Factor:

1.0

**Collection Date:** 

Lab Receipt Date:

**Extraction Date:** 

03/05/10

Analysis Date:

03/09/10

| PCB ANALYTICAL RESULTS |                                                       |                      |
|------------------------|-------------------------------------------------------|----------------------|
| COMPOUND               | Quantitation<br>Limit $\mu g$ /wipe                   | Results $\mu$ g/wipe |
| PCB-1016               | 0.5                                                   | U                    |
| PCB-1221               | 0.5                                                   | U                    |
| PCB-1232               | 0.5                                                   | U                    |
| PCB-1242               | 0.5                                                   | U                    |
| PCB-1248               | 0.5                                                   | U                    |
| PCB-1254               | 0.5                                                   |                      |
| PCB-1260               | 0.5                                                   | U                    |
|                        |                                                       |                      |
|                        | Surrogate Standard Recovery                           |                      |
|                        | 2,4,5,6-Tetrachloro-m-xylene 95 Decachlorobiphenyl 80 | %<br>%               |
| U=Undetected           | J=Estimated E=Exceeds Calibration Range               | B=Detected in        |

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report



Data Path: C:\msdchem\1\DATA\030910-M\

Data File: M22955B.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On 9 Mar 2010 9:30 pm

JK Operator

. j

B030510PSOX2,RR,,A/C Sample

SOIL Misc

ALS Vial Sample Multiplier: 1 : 29

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 10 15:28:27 2010

Quant Method: C:\msdchem\1\METHODS\PCB020410.M

Quant Title : Aroclor 1016/1260

QLast Update : Thu Feb 04 11:18:55 2010

Response via : Initial Calibration

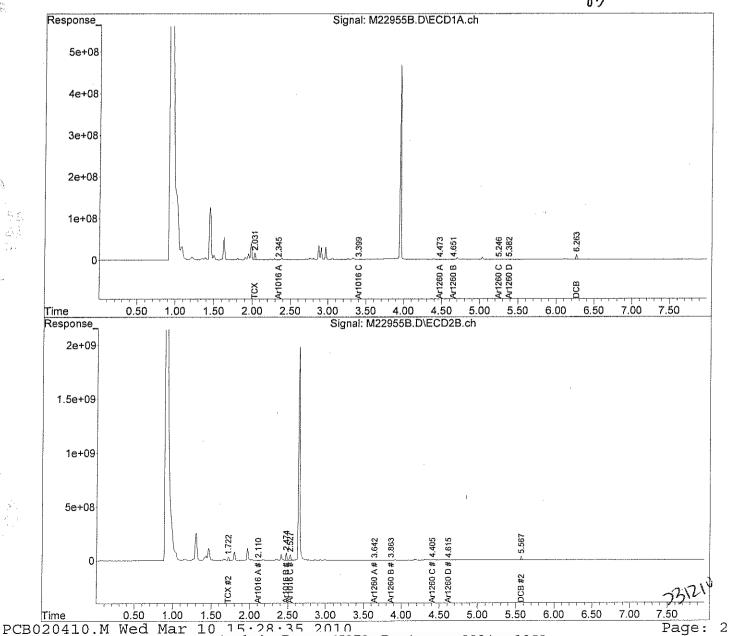
5% Integrator: ChemStation

Volume Inj.

Signal #1 Phase : Signal #1 Info

Signal #2 Phase:

Signal #2 Info:





SAMPLE DATA

Lab Sample ID:

B030910PSOX

Matrix:

Soil

March 12, 2010

Percent Solid:

N/A

Dilution Factor:

1.0

Collection Date:

Lab Receipt Date:

Extraction Date:

te: 03/09/10

**Analysis Date:** 

03/10/10

#### CLIENT SAMPLE ID

Project Name:

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

Lab QC

| PCB ANALYTICAL RESULTS |
|------------------------|
|                        |
| Overtitation           |

| COMPOUND | Quantitation<br>Limit μg/kg | Results<br>μg/kg |
|----------|-----------------------------|------------------|
| PCB-1016 | 33                          | U                |
| PCB-1221 | 33                          | U                |
| PCB-1232 | 33                          | U                |
| PCB-1242 | 33                          | U                |
| PCB-1248 | 33                          | Ü                |
| PCB-1254 | 33                          | U                |
| PCB-1260 | 33                          | U                |
|          |                             |                  |

#### Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene

87 %

Decachlorobiphenyl

65 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

Results are expressed on a dry weight basis.

PCB Report

Authorized signature

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\030910-L\

Data File : L15904B.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 10 Mar 10 9:10 am

Operator : MG

Sample : B030910PSOX

Misc

ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: Mar 10 10:44:26 2010

Quant Method : C:\msdchem\1\METHODS\PB030210.M

Quant Title : Aroclor 1016/1260

QLast Update : Wed Mar 03 10:27:55 2010

Response via : Initial Calibration

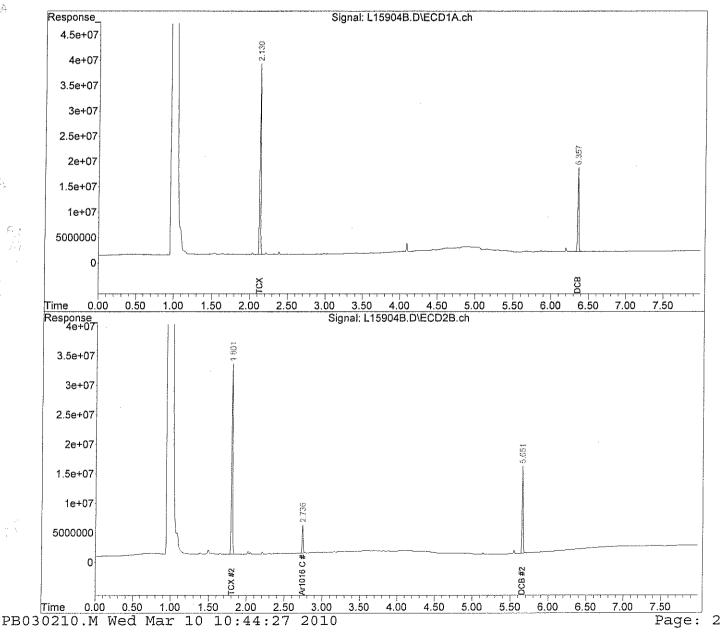
Integrator: ChemStation

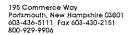
Volume Inj. : 3 ul

Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore

Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um film

2310:10







#### CLIENT SAMPLE ID

Project Name:

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

Lab QC

March 11, 2010

#### SAMPLE DATA

Lab Sample ID:

B030510PSOX2 RR

Matrix:

Soil

Percent Solid:

N/A

**Dilution Factor:** 

1.0

**Collection Date:** 

Lab Receipt Date:

**Extraction Date:** 

03/05/10

**Analysis Date:** 

03/11/10

|                | PCB ANALYTICAL RESUL                                   | TS            |
|----------------|--------------------------------------------------------|---------------|
| COMPOUND       | Quantitation Results Limit $\mu$ g/kg $\mu$ g/kg       |               |
| PCB-1016       | 33                                                     | U             |
| PCB-1221       | 33                                                     | U             |
| PCB-1232       | 33                                                     | Ü             |
| PCB-1242       | 33                                                     | U             |
| PCB-1248       | 33 U                                                   |               |
| PCB-1254       | 33 U                                                   |               |
| PCB-1260       | 33 U                                                   |               |
|                |                                                        |               |
|                |                                                        |               |
|                | Surrogate Standard Recovery                            |               |
|                | 2,4,5,6-Tetrachloro-m-xylene 100 Decachlorobiphenyl 83 | %<br>%        |
| U=Undetected J | =Estimated E=Exceeds Calibration Range                 | B=Detected in |

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

Results are expressed on a dry weight basis.

PCB Report

Authorized signature \_\_\_\_\_\_

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\031110-M\

Data File: M22990B.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 11 Mar 2010 10:42 am

Operator : JK

Sample : B030510PSOX2,RR2,,A/C

Misc : SOIL

ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e Quant Time: Mar 11 11:21:42 2010

Quant Method : C:\msdchem\1\METHODS\PCB020410.M

Quant Title : Aroclor 1016/1260

p: QLast Update : Thu Feb 04 11:18:55 2010

Response via : Initial Calibration

Integrator: ChemStation

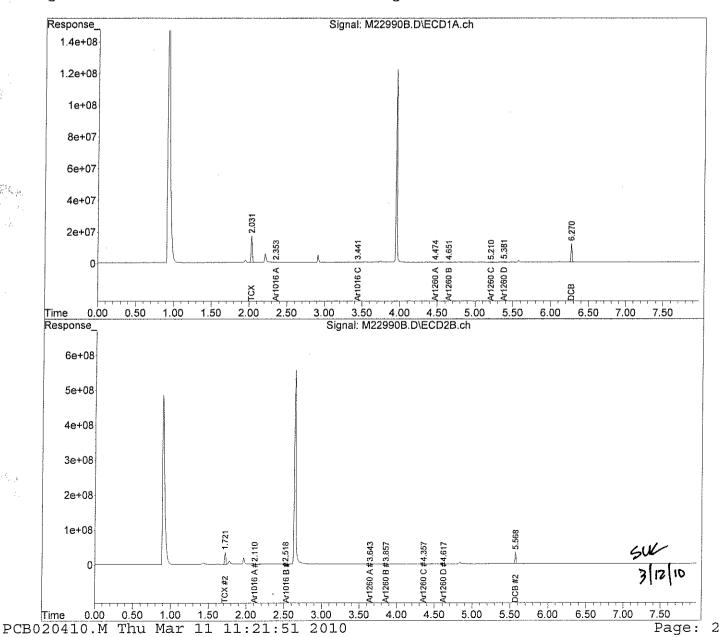
Volume Inj.

Signal #1 Phase :
Signal #1 Info :

Signal #2 Phase:

Signal #2 Info :

31100





March 10, 2010

SAMPLE DATA

CLIENT SAMPLE ID

Project Name:

Peabody Terrace

Project Number:

Field Sample ID:

210980

PTB-CBC-1432-0420

Lab Sample ID: 65979-1 Matrix: Solid Percent Solid: 98 Dilution Factor: 505 **Collection Date:** 03/02/10 Lab Receipt Date: 03/03/10 **Extraction Date:** 03/03/10

**Analysis Date:** 03/05/10

|          | PCB ANALYTICAL RESULTS           |                  |
|----------|----------------------------------|------------------|
| COMPOUND | Quantitation<br>Limit μg/kg      | Results<br>µg/kg |
| PCB-1016 | 16700                            | U                |
| PCB-1221 | 16700                            | Ū                |
| PCB-1232 | 16700                            | U                |
| PCB-1242 | 16700                            | U                |
| PCB-1248 | 16700                            | U                |
| PCB-1254 | 16700                            | 253000           |
| PCB-1260 | 16700                            | U                |
|          |                                  |                  |
|          | Surrogate Standard Recovery      |                  |
|          | 2,4,5,6-Tetrachloro-m-xylene * % |                  |
|          | Decachlorobiphenyl * %           |                  |

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

Results are expressed on a dry weight basis.

\* The surrogates were diluted out.

PCB Report

Authorized signature Muliluli

# PCB COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M

SDG: 65979

GC Column #1: STX-CLPesticides I

Sample: 65979-1,1:50

Column ID: 0.25 mm

Data File: M22794.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 505.4

Column ID: 0.25 mm

Column #1

Column #2

| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
|----------|-----------------------|-----------------------|-----|---|
| PCB 1254 | 253404                | 256897                | 1.4 |   |

- # Column to be used to flag RPD values greater than QC limit of 40%
- \* Values outside QC limits

| Comments: |
|-----------|
|-----------|

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\030510-M\

Data File: M22794.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On 5 Mar 2010 6:07 pm

Operator : RM

Sample : 65979-1,1:50 : SOIL,,50 ML FV Misc

ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 09 09:33:53 2010

Quant Method: C:\msdchem\1\METHODS\54SP020410.M

Quant Title

QLast Update : Fri Feb 05 08:08:17 2010

Response via : Initial Calibration

Integrator: ChemStation

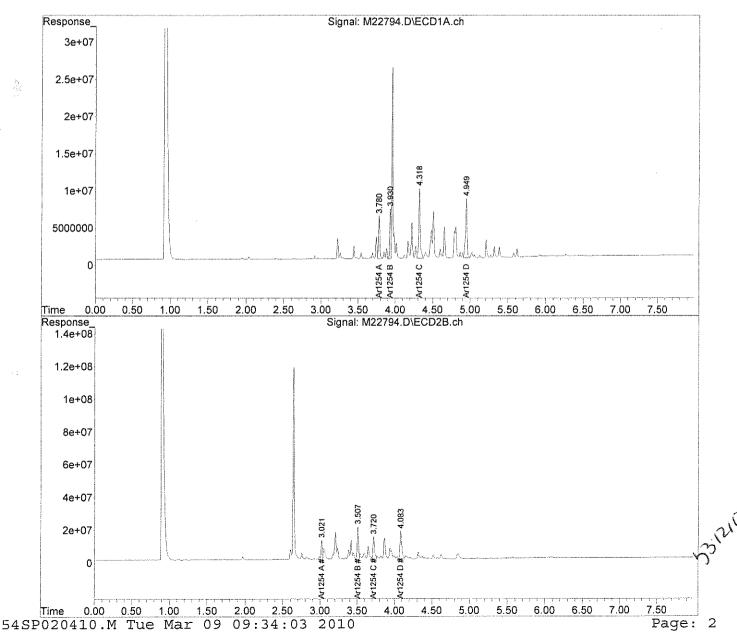
Volume Inj.

Signal #1 Phase :

Signal #1 Info

Signal #2 Phase:

Signal #2 Info :



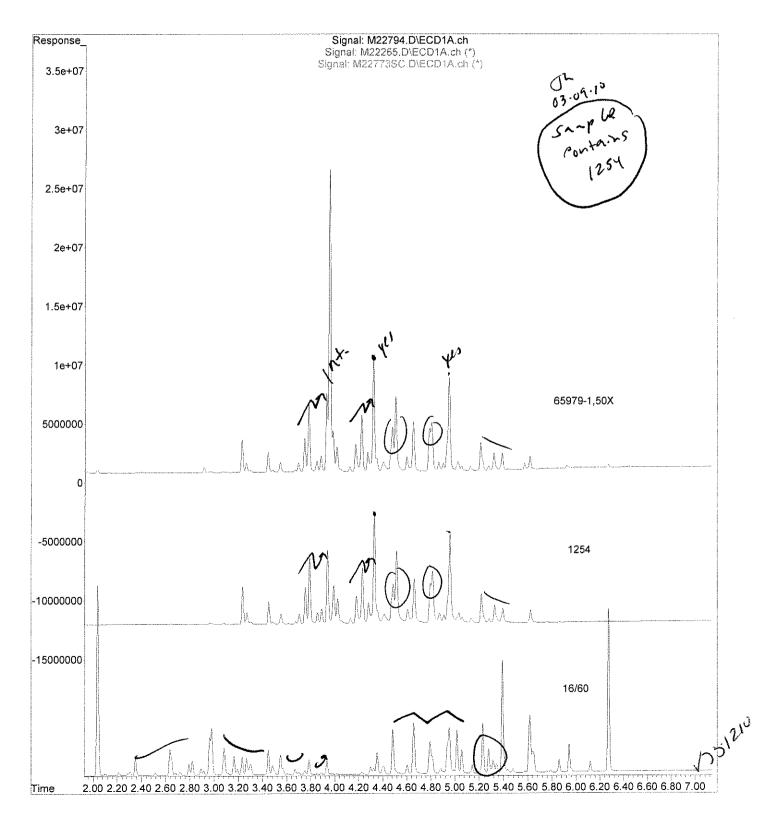
File :C:\msdchem\1\DATA\030510-M\M22794.D

Operator : RM

Acquired : 5 Mar 2010 6:07 pm using AcqMethod PCB.M

Instrument : Instrument M
Sample Name: 65979-1,1:50
Misc Info : SOIL,,50 ML FV

Vial Number: 14





CLIENT SAMPLE ID

Project Name:

Peabody Terrace

Project Number:

210980

Field Sample ID:

PTB-CBC-1432-0421

March 10, 2010

SAMPLE DATA

Lab Sample ID:

65979-2

Matrix:

Solid

Percent Solid:

98

**Dilution Factor:** 

10

**Collection Date:** 

03/02/10

Lab Receipt Date:

03/03/10

**Extraction Date: Analysis Date:** 

03/05/10

03/08/10

PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation<br>Limit µg/kg | Results<br>μg/kg |
|----------|-----------------------------|------------------|
| PCB-1016 | 330                         | U                |
| PCB-1221 | 330                         | U                |
| PCB-1232 | 330                         | U                |
| PCB-1242 | 330                         | U                |
| PCB-1248 | 330                         | U                |
| PCB-1254 | 330                         | 633              |
| PCB-1260 | 330                         | U                |
|          |                             |                  |

### Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene

100 %

Decachlorobiphenyl

80 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature Mulul

Instrument ID: M

SDG: 65979

GC Column #1: STX-CLPesticides I

Sample: 65979-2

Column ID: 0.25 mm

Data File: M22849.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 10.0

Column ID: 0.25 mm

Column #1

| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
|----------|-----------------------|-----------------------|-----|---|
| PCB 1254 | 608                   | 633                   | 3.9 |   |

- # Column to be used to flag RPD values greater than QC limit of 40%
- \* Values outside QC limits

| Comments: |  |
|-----------|--|
|           |  |

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\030810-M\

Data File: M22849.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 8 Mar 2010 2:48 pm

Operator : JK

Sample : 65979-2 Misc : SOIL

ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 09 14:16:36 2010

Quant Method: C:\msdchem\1\METHODS\54SP020410.M

Quant Title

QLast Update : Fri Feb 05 08:08:17 2010

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

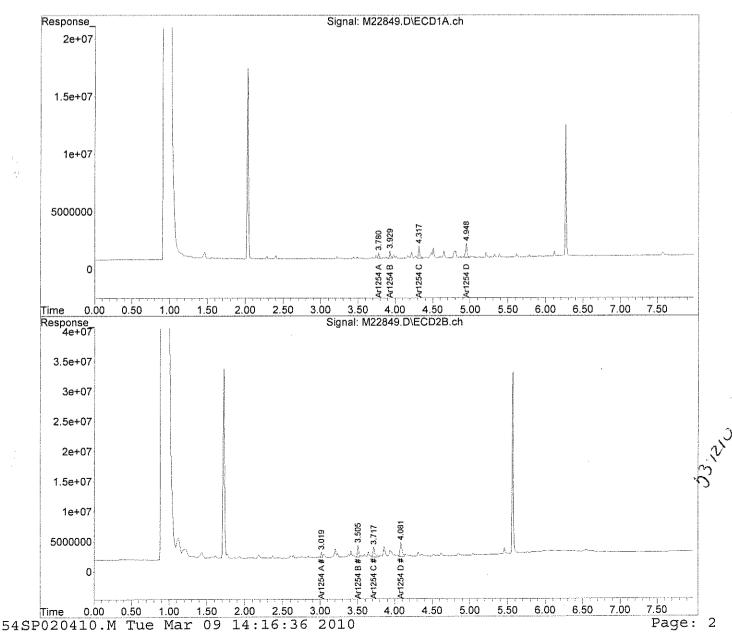
Signal #1 Phase :

Signal #1 Info

Signal #2 Phase:

Signal #2 Info :

13.04.10



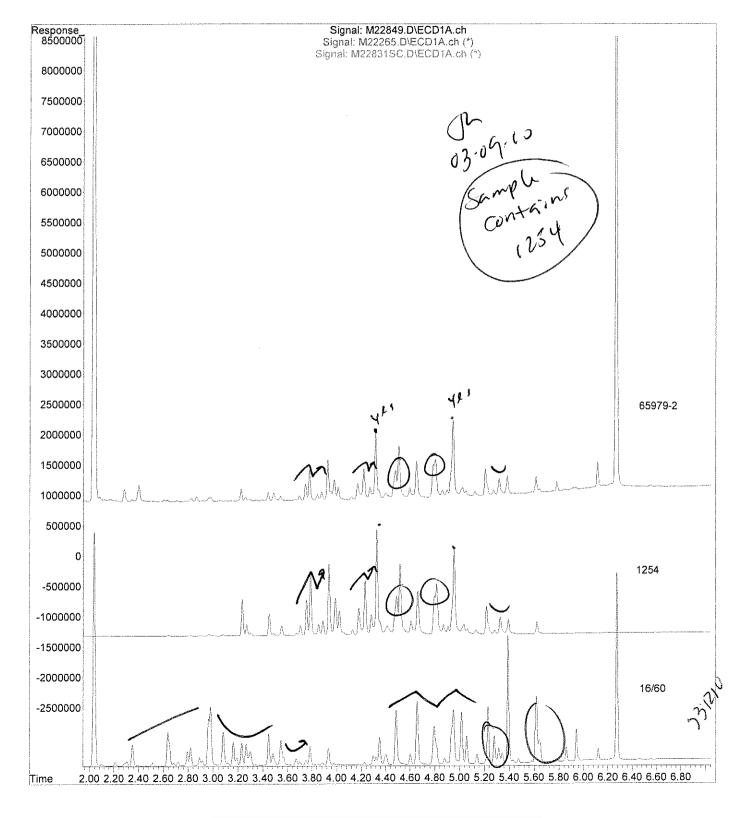
File :C:\msdchem\1\DATA\030810-M\M22849.D

Operator : JK

Acquired: 8 Mar 2010 2:48 pm using AcqMethod PCB.M

Instrument : Instrument M

Sample Name: 65979-2 Misc Info : SOIL Vial Number: 15





CLIENT SAMPLE ID

Project Name:

Peabody Terrace

Project Number:

210980

Field Sample ID:

PTB-CBCD-1432-0422

March 10, 2010

SAMPLE DATA

Lab Sample ID:

Matrix:

65979-3 Solid

98

Percent Solid: **Dilution Factor:** 

10

Collection Date:

03/02/10

Lab Receipt Date:

03/03/10

**Extraction Date:** 

03/05/10

Analysis Date:

03/08/10

|  | PCB | ANAL | YTICAL | RESUL | TS |
|--|-----|------|--------|-------|----|
|--|-----|------|--------|-------|----|

| COMPOUND | Quantitation<br>Limit $\mu g/$ kg | Results<br>μg/kg |
|----------|-----------------------------------|------------------|
| PCB-1016 | 330                               | U                |
| PCB-1221 | 330                               | U                |
| PCB-1232 | 330                               | U                |
| PCB-1242 | 330                               | U                |
| PCB-1248 | 330                               | U                |
| PCB-1254 | 330                               | 557              |
| PCB-1260 | 330                               | U                |
|          |                                   |                  |

#### Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene

93 %

Decachlorobiphenyl

76 %

U=Undetected J=Estimated E=Exceeds Calibration Range

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

Results are expressed on a dry weight basis.

PCB Report

Authorized signature Mulul

Instrument ID: M

SDG: 65979

GC Column #1: STX-CLPesticides I

Sample: 65979-3

Column ID: 0.25 mm

Data File: M22850.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 10.1

Column ID: 0.25 mm

Column #1

| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
|----------|-----------------------|-----------------------|-----|---|
| PCB 1254 | 528                   | 557                   | 5.3 |   |

- # Column to be used to flag RPD values greater than QC limit of 40%
- \* Values outside QC limits

| Comments: |  |  |  |
|-----------|--|--|--|

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\030810-M\

Data File: M22850.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On 8 Mar 2010 2:58 pm

Operator : JK

Sample : 65979-3 Misc : SOIL

ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 09 14:21:50 2010

Quant Method: C:\msdchem\1\METHODS\54SP020410.M

Ouant Title

QLast Update : Fri Feb 05 08:08:17 2010

Response via : Initial Calibration

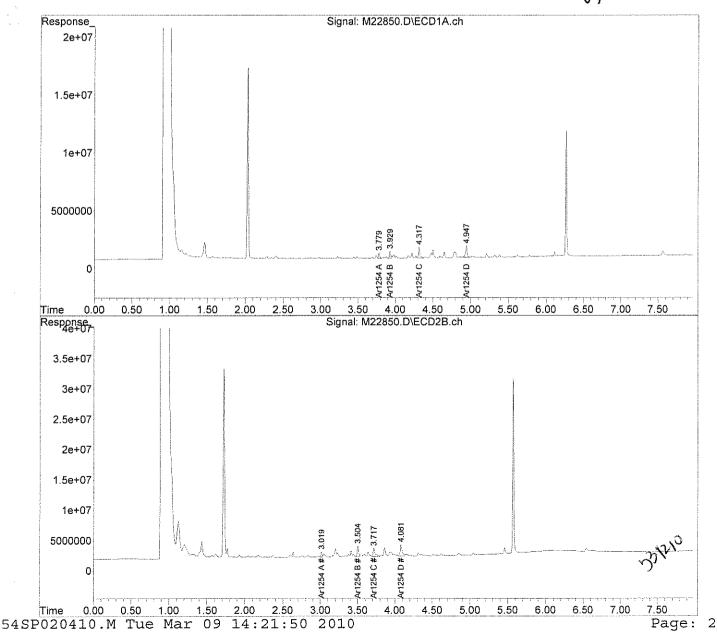
Integrator: ChemStation

Volume Inj.

Signal #1 Phase : Signal #1 Info

Signal #2 Phase:

Signal #2 Info :



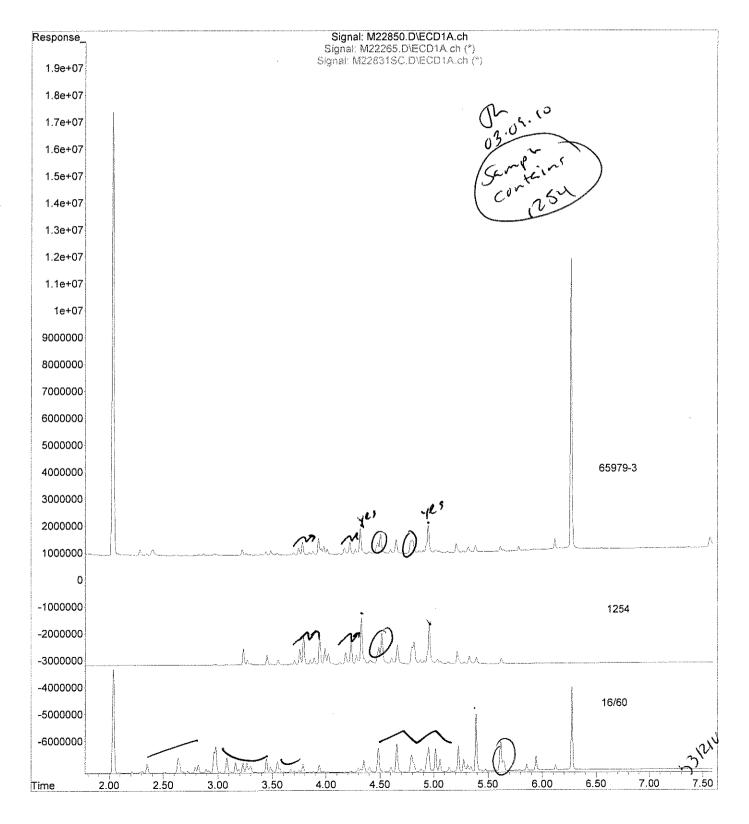
File :C:\msdchem\1\DATA\030810-M\M22850.D

Operator : JK

Acquired : 8 Mar 2010 2:58 pm using AcqMethod PCB.M

Instrument: Instrument M

Sample Name: 65979-3 Misc Info : SOIL Vial Number: 16





#### CLIENT SAMPLE ID

Project Name:

Peabody Terrace

Project Number:

210980

Field Sample ID:

PTB-CBC-1432-0423

March 10, 2010

#### SAMPLE DATA

Lab Sample ID:

65979-4

Matrix:

Solid

Percent Solid:

98

Dilution Factor:

10

**Collection Date:** 

03/02/10

Lab Receipt Date:

03/03/10

**Extraction Date:** 

03/05/10

Analysis Date:

03/08/10

| PCB  | ANAI        | LYTIC | AL R | ESUL | TS |
|------|-------------|-------|------|------|----|
| 1 01 | 7 7 7 7 7 7 |       |      |      |    |

| COMPOUND | Quantitation<br>Limit μg/kg | Results<br>μg/kg |
|----------|-----------------------------|------------------|
| PCB-1016 | 330                         | Ŭ                |
| PCB-1221 | 330                         | U                |
| PCB-1232 | 330                         | U                |
| PCB-1242 | 330                         | U                |
| PCB-1248 | 330                         | U                |
| PCB-1254 | 330                         | U                |
| PCB-1260 | 330                         | U                |
|          |                             |                  |

### Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene

90

%

%

Decachlorobiphenyl

74

U=Undetected J=Estimated E=Exceeds Calibration Range

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Data Path : C:\msdchem\1\DATA\030810-M\

Data File : M22851.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

8 Mar 2010 3:08 pm Acq On

: JK Operator

i de

Sample : 65979-4 : SOIL Misc

ALS Vial Sample Multiplier: 1 : 17

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 09 14:26:51 2010

Quant Method: C:\msdchem\1\METHODS\PCB020410.M

Quant Title : Aroclor 1016/1260

QLast Update: Thu Feb 04 11:18:55 2010 Response via: Initial Calibration

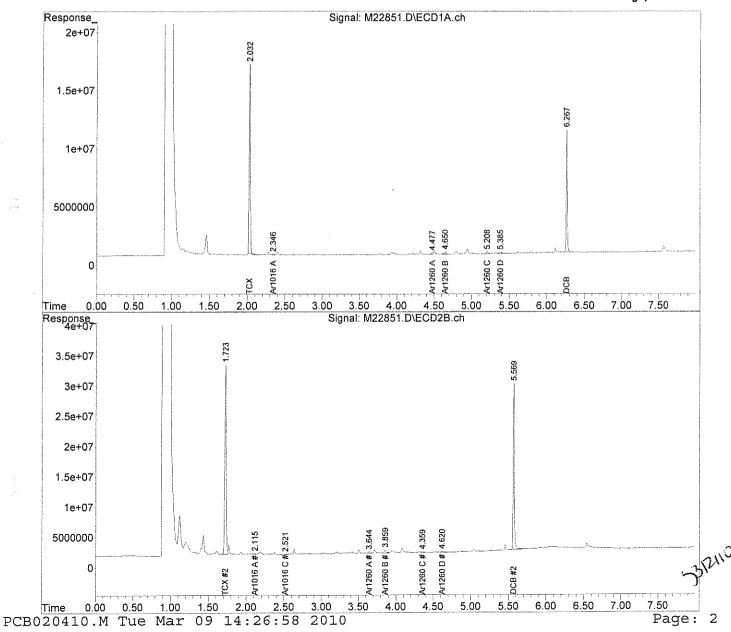
Tintegrator: ChemStation

Volume Inj.

Signal #1 Phase : Signal #1 Info

Signal #2 Phase:

Signal #2 Info :



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CLIENT SAMPLE ID

Project Name:

Peabody Terrace

Project Number:

210980

Field Sample ID:

PTB-CBC-1432-0424

March 12, 2010

SAMPLE DATA

Lab Sample ID:

65979-5

Matrix:

Solid

Percent Solid:

98

**Dilution Factor:** 

197

Collection Date:

03/02/10

Lab Receipt Date:

03/03/10

**Extraction Date:** 

03/05/10

Analysis Date:

03/09/10

PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation Limit $\mu$ g/kg | Results<br>μg/kg |
|----------|-------------------------------|------------------|
| PCB-1016 | 6500                          | U                |
| PCB-1221 | 6500                          | U                |
| PCB-1232 | 6500                          | U                |
| PCB-1242 | 6500                          | U                |
| PCB-1248 | 6500                          | U                |
| PCB-1254 | 6500                          | 172000           |
| PCB-1260 | 6500                          | U                |
|          |                               |                  |

#### Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene

%

Decachlorobiphenyl

%

U=Undetected J=Estimated E=Exceeds Calibration Range

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

Results are expressed on a dry weight basis.

\* The surrogates were diluted out.

PCB Report

Authorized signature Mulywell

Instrument ID: M

SDG: 65979

GC Column #1: STX-CLPesticides I

Sample: 65979-5,200X,,A/C

Column ID: 0.25 mm

Data File: M22952.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 196.8

Column ID: 0.25 mm

Column #1

| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD  | # |
|----------|-----------------------|-----------------------|------|---|
| PCB 1254 | 152004                | 171543                | 12.1 |   |

- # Column to be used to flag RPD values greater than QC limit of 40%
- \* Values outside QC limits

| Comments: |  |  |
|-----------|--|--|
|           |  |  |

Data Path : C:\msdchem\1\DATA\030910-M\

Data File: M22952.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

9 Mar 2010 Acq On 8:59 pm

Operator : JK

Sample : 65979-5,200X,,A/C

Misc : SOIL

Sample Multiplier: 1 ALS Vial : 28

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 10 14:05:07 2010

Quant Method: C:\msdchem\1\METHODS\54SP020410.M

Quant Title

QLast Update : Fri Feb 05 08:08:17 2010

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

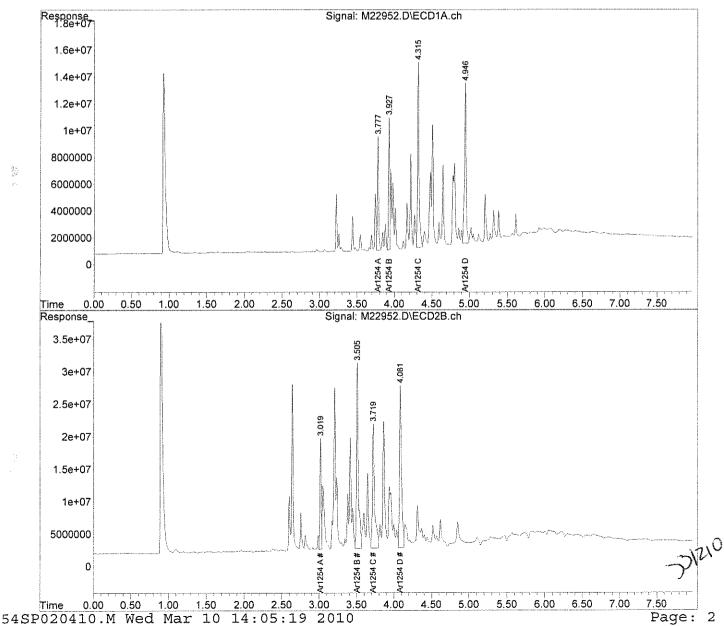
Signal #1 Phase :

Signal #1 Info

Signal #2 Phase:

Signal #2 Info:

Jr 10.10



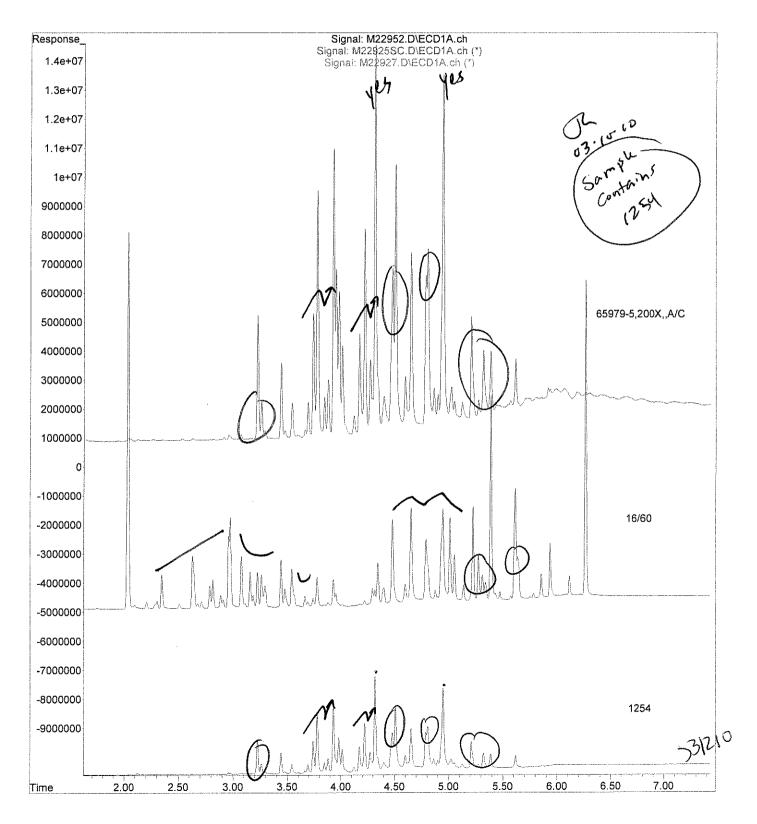
File :C:\msdchem\1\DATA\030910-M\M22952.D

Operator : JK

Acquired: 9 Mar 2010 8:59 pm using AcqMethod PCB.M

Instrument : Instrument M
Sample Name: 65979-5,200X,,A/C

Misc Info : SOIL Vial Number: 28





#### CLIENT SAMPLE ID

Project Name:

Peabody Terrace

Project Number:

210980

Field Sample ID:

PTB-CBC-1432-0425

March 10, 2010

### SAMPLE DATA

Lab Sample ID: 65979-6 Matrix: Solid

99 Percent Solid:

Dilution Factor: 10

**Collection Date:** 03/02/10 Lab Receipt Date: 03/03/10 **Extraction Date:** 03/05/10

**Analysis Date:** 03/08/10

## PCB ANALYTICAL RESULTS

|   | COMPOUND | Quantitation<br>Limit μg/kg | Results<br>μg/kg |
|---|----------|-----------------------------|------------------|
|   | PCB-1016 | 330                         | ប                |
|   | PCB-1221 | 330                         | U                |
|   | PCB-1232 | 330                         | U                |
|   | PCB-1242 | 330                         | U                |
|   | PCB-1248 | 330                         | U                |
|   | PCB-1254 | 330                         | 1160             |
|   | PCB-1260 | 330                         | U                |
| ١ |          |                             |                  |

### Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene 93 % Decachlorobiphenyl 72 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Instrument ID: M

SDG: 65979

GC Column #1: STX-CLPesticides I

Sample: 65979-6

Column ID: 0.25 mm

Data File: M22859.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 10.0

Column ID: 0.25 mm

Column #1

| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
|----------|-----------------------|-----------------------|-----|---|
| PCB 1254 | 1241                  | 1164                  | 6.4 |   |

- # Column to be used to flag RPD values greater than QC limit of 40%
- \* Values outside QC limits

| Comments: |  |  |
|-----------|--|--|
|           |  |  |

Data Path : C:\msdchem\1\DATA\030810-M\

Data File: M22859.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

8 Mar 2010 4:29 pm Acq On

: JK Operator

: 65979-6 Sample : SOIL Misc

Sample Multiplier: 1 ALS Vial : 22

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 09 14:53:53 2010

Quant Method: C:\msdchem\1\METHODS\54SP020410.M

Quant Title

QLast Update : Fri Feb 05 08:08:17 2010

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase :

Signal #2 Phase:

Signal #2 Info :

Signal #1 Info Signal: M22859.D\ECD1A.ch Response 1.5e+07 1e+07 5000000 Ar1254 A Ar1254 B Ar1254 D 0 5.00 5.50 6.00 6.50 0.00 1.00 1.50 2.00 2.50 3.00 3.50 4.00 Time Signal: M22859.D\ECD2B.ch Response 3.5e+07 3e+07 2.5e+07 2e+07 1.5e+07 1e+07 3.019 5000000 Ar1254 C # Ar1254 B# 1254 D# 1254 A# 0

4.00

4.50

5.00

6.00

5.50

6.50

7.50

Page: 2

3.50

3.00

2.00

0.50

1.00

54SP020410.M Tue Mar 09 14:54:01 2010

1.50

2.50

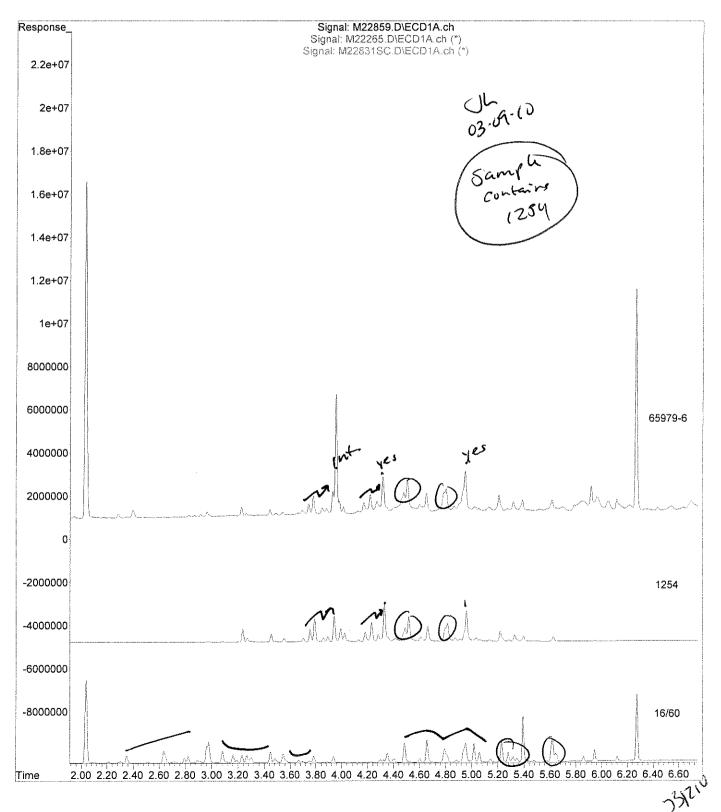
File :C:\msdchem\1\DATA\030810-M\M22859.D

Operator : JK

Acquired: 8 Mar 2010 4:29 pm using AcqMethod PCB.M

Instrument: Instrument M

Sample Name: 65979-6 Misc Info : SOIL Vial Number: 22





#### CLIENT SAMPLE ID

Project Name:

Peabody Terrace

Project Number:

210980

Field Sample ID:

PTB-CBC-1432-0426

# March 10, 2010

### SAMPLE DATA

Lab Sample ID: 65979-7

Matrix:

Solid

Percent Solid:

98

**Dilution Factor:** 

10

Collection Date:

03/02/10

Lab Receipt Date:

03/03/10

**Extraction Date:** 

03/05/10

Analysis Date:

03/08/10

### PCB ANALYTICAL RESULTS

| COM   | IPOUND | Quantitation<br>Limit μg/kg | Results<br>μg/kg |
|-------|--------|-----------------------------|------------------|
| PCB-1 | 016    | 330                         | U                |
| PCB-1 | 221    | 330                         | U                |
| PCB-1 | 232    | 330                         | U                |
| PCB-1 | 242    | 330                         | U                |
| PCB-1 | 248    | 330                         | U                |
| PCB-1 | 254    | 330                         | 391              |
| PCB-1 | 260    | 330                         | U                |
|       |        |                             |                  |

### Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene

91 %

Decachlorobiphenyl

75 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Instrument ID: M

SDG: 65979

GC Column #1: STX-CLPesticides I

Sample: 65979-7

Column ID: 0.25 mm

Data File: M22860.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 10.2

Column ID: 0.25 mm

Column #1

| COMPOUND | SAMPLE RESÜLT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD  | # |
|----------|-----------------------|-----------------------|------|---|
| PCB 1254 | 288                   | 391                   | 30.2 |   |

- # Column to be used to flag RPD values greater than QC limit of 40%
- \* Values outside QC limits

Data Path : C:\msdchem\1\DATA\030810-M\

Data File : M22860.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On 8 Mar 2010 4:39 pm

: JK Operator

Sample : 65979-7 : SOIL Misc

ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 09 15:00:21 2010

Quant Method: C:\msdchem\1\METHODS\54SP020410.M

Quant Title

QLast Update : Fri Feb 05 08:08:17 2010

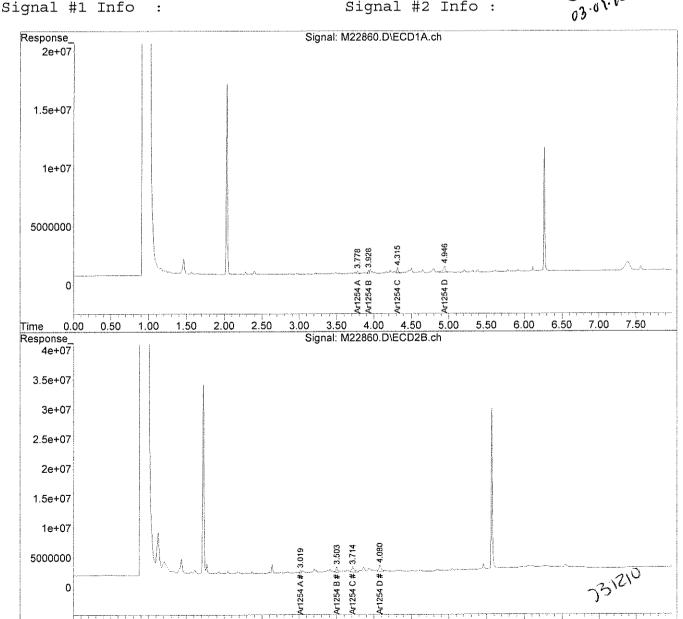
Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase :

Signal #2 Phase: Signal #2 Info :



4.00

4.50

5.00

6.00

5.50

6.50

7.00

Page: 2

3.50

3.00

2.00

2.50

1.00

54SP020410.M Tue Mar 09 15:00:29 2010

1.50

0.50

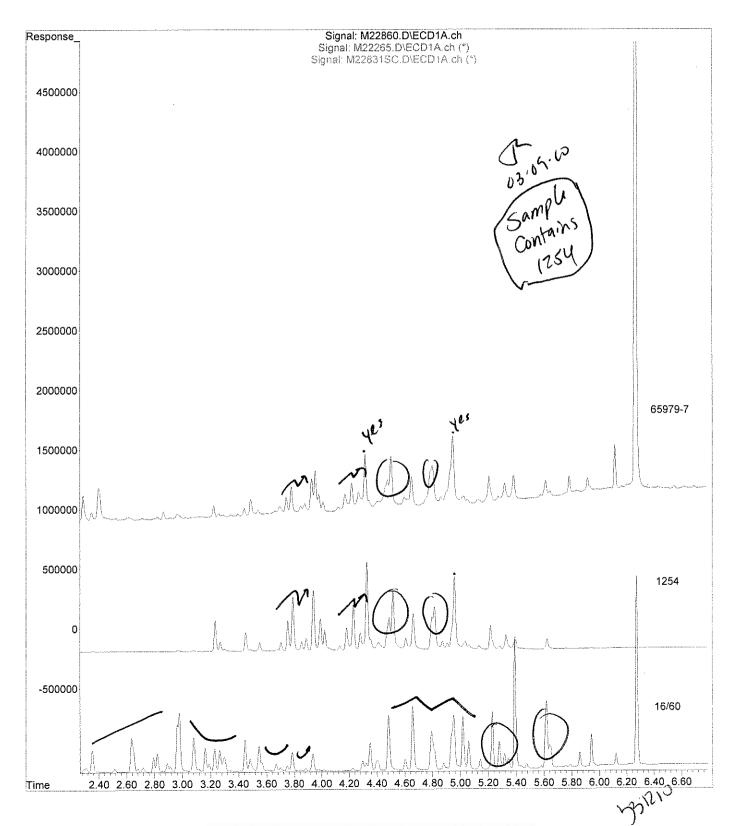
File :C:\msdchem\1\DATA\030810-M\M22860.D

Operator : JK

Acquired: 8 Mar 2010 4:39 pm using AcqMethod PCB.M

Instrument : Instrument M

Sample Name: 65979-7 Misc Info : SOIL Vial Number: 23





CLIENT SAMPLE ID

Project Name:

Peabody Terrace

Project Number:

210980

Field Sample ID:

PTB-CBK-1432-0427

March 12, 2010

SAMPLE DATA

Lab Sample ID:

65979-8

Matrix:

Solid

Percent Solid:

99

**Dilution Factor:** 

264000

**Collection Date:** 

03/02/10

Lab Receipt Date:

03/03/10

**Extraction Date:** 

03/04/10

**Analysis Date:** 

03/10/10

| PCB ANALYTICAL RESULTS           |                                         |                  |  |  |
|----------------------------------|-----------------------------------------|------------------|--|--|
| COMPOUND                         | Quantitation<br>Limit $\mu$ g/kg        | Results<br>μg/kg |  |  |
| PCB-1016                         | 8712000                                 | U                |  |  |
| PCB-1221                         | 8712000                                 | U                |  |  |
| PCB-1232                         | 8712000                                 | U                |  |  |
| PCB-1242                         | 8712000                                 | U                |  |  |
| PCB-1248                         | 8712000                                 | U                |  |  |
| PCB-1254                         | 8712000                                 | 17600000         |  |  |
| PCB-1260                         | 8712000                                 | U                |  |  |
|                                  |                                         |                  |  |  |
|                                  |                                         |                  |  |  |
| Surrogate Standard Recovery      |                                         |                  |  |  |
| 2,4,5,6-Tetrachloro-m-xylene * 9 |                                         | %                |  |  |
|                                  | Decachlorobiphenyl *                    | %                |  |  |
| U=Undetected .                   | J=Estimated E=Exceeds Calibration Range | B=Detected in    |  |  |

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

Results are expressed on a dry weight basis.

\* The surrogates were diluted out.

PCB Report

Authorized signature

Stille

Instrument ID: L

SDG: 65979

GC Column #1: STX-CLPesticides I

Sample: 65979-8 1:40000

Column ID: 0.25 mm

Data File: L15913.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 263615.4

Column ID: 0.25 mm

Column #1

Column #2

| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD  | # |
|----------|-----------------------|-----------------------|------|---|
| PCB 1254 | 156054389             | 176219320             | 12.1 |   |

# Column to be used to flag RPD values greater than QC limit of 40%

\* Values outside QC limits

| Comments: |  |  |  |
|-----------|--|--|--|
|           |  |  |  |

Data Path : C:\msdchem\1\DATA\030910-L\

Data File : L15913.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 10 Mar 10 12:18 pm

Operator : MG

Sample : 65979-8 1:40000

Misc

ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 12 10:09:36 2010

Quant Method : C:\msdchem\1\METHODS\54SP30210.M

Quant Title :

QLast Update : Mon Mar 08 18:20:16 2010

Response via : Initial Calibration

Integrator: ChemStation

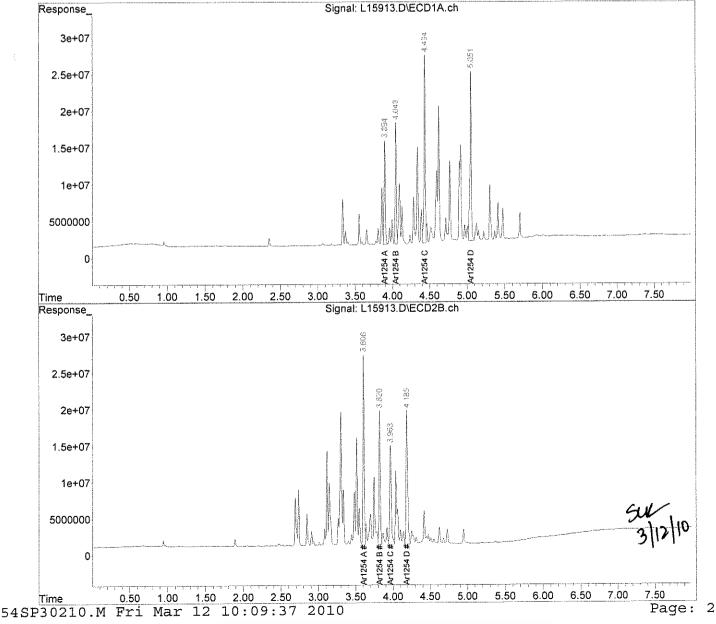
Volume Inj.

Signal #1 Phase : Signal #1 Info :

Signal #2 Phase:

Signal #2 Info :

Jh 17-13



File :C:\msdchem\1\DATA\030910-L\L15913.D

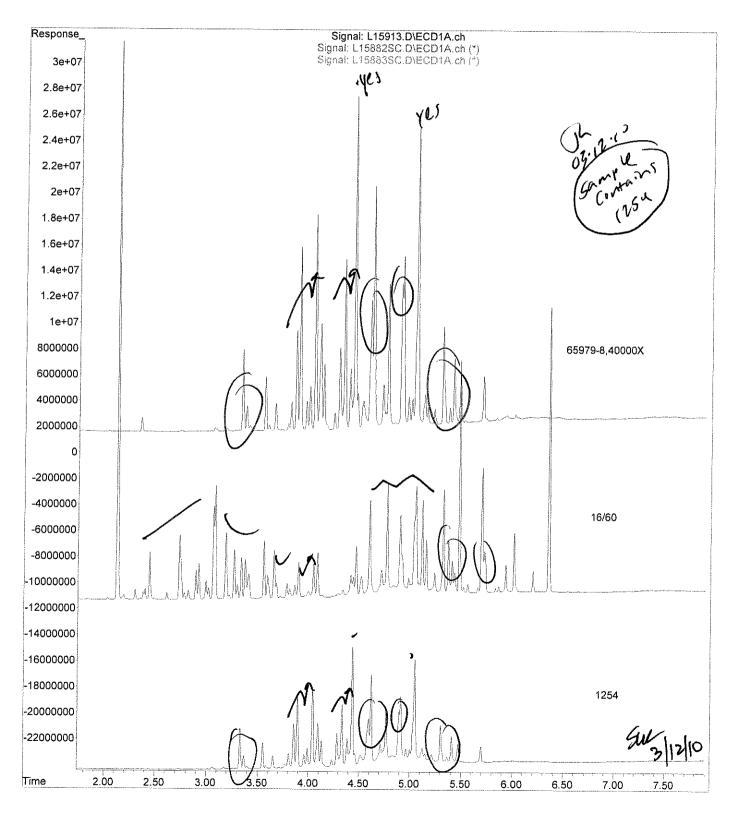
Operator : MG

Acquired : 10 Mar 10 12:18 pm using AcqMethod PEST.M

Instrument : Inst L

Sample Name: 65979-8 1:40000

Misc Info : Vial Number: 11





CLIENT SAMPLE ID

Project Name:

Peabody Terrace

Project Number:

210980

Field Sample ID:

PTB-CBK-1531-0428

March 12, 2010

SAMPLE DATA

Lab Sample ID:

65979-9

Matrix:

Solid

Percent Solid:

99

**Dilution Factor:** 

37

Collection Date:

03/02/10

Lab Receipt Date:

03/03/10

**Extraction Date:** 

03/04/10

Analysis Date:

03/09/10

| PCB ANALYTICAL RESULTS      |                                      |                 |                  |  |  |
|-----------------------------|--------------------------------------|-----------------|------------------|--|--|
| COMPOUND                    | Quantitation<br>Limit $\mu$ g/kg     |                 | Results<br>μg/kg |  |  |
| PCB-1016                    | 1220                                 |                 | U                |  |  |
| PCB-1221                    | 1220                                 |                 | U                |  |  |
| PCB-1232                    | 1220                                 |                 | U                |  |  |
| PCB-1242                    | 1220                                 |                 | U .              |  |  |
| PCB-1248                    | 1220                                 |                 | U                |  |  |
| PCB-1254                    | 1220                                 |                 | 16700 P          |  |  |
| PCB-1260                    | 1220                                 |                 | U                |  |  |
|                             |                                      |                 |                  |  |  |
|                             |                                      |                 |                  |  |  |
| Surrogate Standard Recovery |                                      |                 |                  |  |  |
|                             | 2,4,5,6-Tetrachloro-m-xylene 78      |                 |                  |  |  |
|                             | Decachlorobiphenyl 5                 | %               |                  |  |  |
| U=Undetected J=             | =Estimated E=Exceeds Calibration Ran | e B=Detected in |                  |  |  |

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

Results are expressed on a dry weight basis. P=Sample did not meet confirmation acceptance criteria for percent

difference.

PCB Report

Authorized signature Mylll

Instrument ID: L

SDG:

GC Column #1: STX-CLPesticides I

Sample: 65979-9,1:5

Column ID: 0.25 mm

Data File: L15891.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 37.0

Column ID: 0.25 mm

Column #1

| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD  | # |
|----------|-----------------------|-----------------------|------|---|
| PCB 1254 | 16703                 | 9659                  | 53.4 | * |

- # Column to be used to flag RPD values greater than QC limit of 40%
- \* Values outside QC limits

| Comments: |  |  |
|-----------|--|--|
|           |  |  |

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\030910-L\

Data File : L15891.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 9 Mar 10 6:48 pm

Operator : MG

Sample : 65979-9,1:5

Misc

ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e

Quant Time: Mar 10 08:48:34 2010

Quant Method: C:\msdchem\1\METHODS\54SP30210.M

Quant Title :

QLast Update : Mon Mar 08 18:20:16 2010

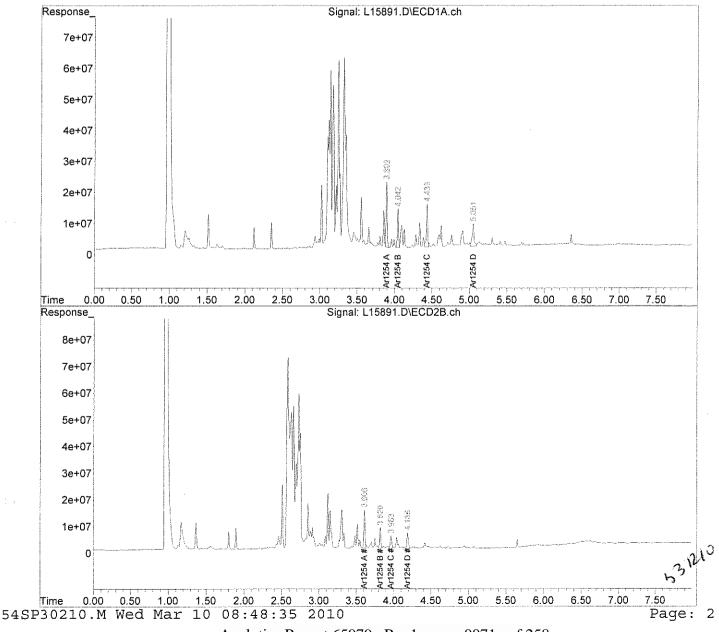
Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. :

Signal #1 Phase : Signal #1 Info : Signal #2 Phase:
Signal #2 Info :

23/0/0





CLIENT SAMPLE ID

Project Name:

Peabody Terrace

Project Number:

210980

Field Sample ID:

PTC-CBK-1332-0429

March 10, 2010

SAMPLE DATA

Lab Sample ID:

65979-10

Matrix:

Solid

Percent Solid:

99

Dilution Factor:

3660

**Collection Date:** 

03/02/10

Lab Receipt Date:

03/03/10

**Extraction Date:** 

03/04/10

**Analysis Date:** 

03/09/10

| PCB ANALYTICAL RESULT | $\mathbf{I} \cup \mathcal{D}$ | <i><b>XXX X X X X X X X X X X X X X X X X X </b></i> |  |
|-----------------------|-------------------------------|------------------------------------------------------|--|
|-----------------------|-------------------------------|------------------------------------------------------|--|

| COMPOUND | Quantitation<br>Limit μg/kg | Results<br>μg/kg |
|----------|-----------------------------|------------------|
| PCB-1016 | 121000                      | U                |
| PCB-1221 | 121000                      | U                |
| PCB-1232 | 121000                      | U                |
| PCB-1242 | 121000                      | U                |
| PCB-1248 | 121000                      | U                |
| PCB-1254 | 121000                      | 2990000          |
| PCB-1260 | 121000                      | U                |
|          |                             |                  |

#### Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene

%

Decachlorobiphenyl

%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

Results are expressed on a dry weight basis.

\* The surrogates were diluted out.

PCB Report

Authorized signature Mulibul

Instrument ID: L

SDG:

GC Column #1: STX-CLPesticides I

Sample: 65979-10, 1:500

Column ID: 0.25 mm

Data File: L15895.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 3662.0

Column ID: 0.25 mm

Column #1

| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD  | # |
|----------|-----------------------|-----------------------|------|---|
| PCB 1254 | 2993886               | 3730114               | 21.9 |   |

- # Column to be used to flag RPD values greater than QC limit of 40%
- \* Values outside QC limits

| Comments: |  |
|-----------|--|
|           |  |

### Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\030910-L\

Data File : L15895.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 9 Mar 10 7:30 pm

Operator : MG

Sample : 65979-10, 1:500

Misc

ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 10 10:06:24 2010

Quant Method : C:\msdchem\1\METHODS\54SP30210.M

Quant Title :

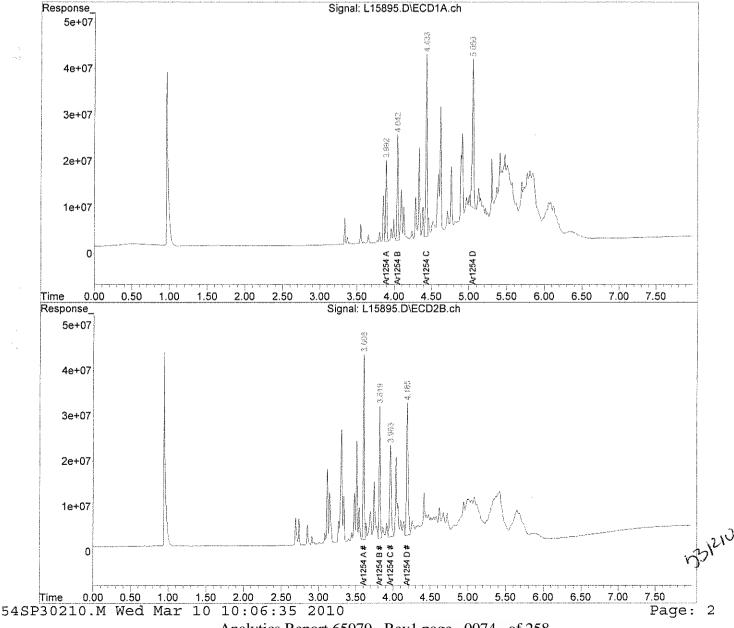
QLast Update : Mon Mar 08 18:20:16 2010

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. :

Signal #1 Phase : Signal #2 Phase: Signal #1 Info : Signal #2 Info :



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CLIENT SAMPLE ID

Project Name:

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

PTC-CBK-1332-0430

March 10, 2010

SAMPLE DATA

Lab Sample ID:

65979-11

Matrix:

Solid

Percent Solid: Dilution Factor:

99 47

Collection Date:

03/02/10

Lab Receipt Date:

03/03/10

**Extraction Date:** 

03/04/10

Analysis Date:

03/09/10

| PCR    | AN   | AI | YTI | CAL | RESUL   | TS |
|--------|------|----|-----|-----|---------|----|
| 1 ( 1) | 7.77 |    |     |     | TAL JUL |    |

| COMPOUND | Quantitation<br>Limit μg/kg | Results<br>μg/kg |
|----------|-----------------------------|------------------|
| PCB-1016 | 1550                        | U                |
| PCB-1221 | 1550                        | U                |
| PCB-1232 | 1550                        | U                |
| PCB-1242 | 1550                        | U                |
| PCB-1248 | 1550                        | U                |
| PCB-1254 | 1550                        | 25900 P          |
| PCB-1260 | 1550                        | U                |
|          |                             |                  |

### Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene

82 %

Decachlorobiphenyl

59 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

Results are expressed on a dry weight basis. P=Sample did not meet confirmation acceptance criteria for percent

difference.

PCB Report

COMMENTS:

Authorized signature Mululi

Instrument ID: L

SDG:

GC Column #1: STX-CLPesticides I

Sample: 65979-11, 1:5

Column ID: 0.25 mm

Data File: L15892.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 46.7

Column ID: 0.25 mm

Column #1

| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD  | # |
|----------|-----------------------|-----------------------|------|---|
| PCB 1254 | 25867                 | 12511                 | 69.6 | * |

- # Column to be used to flag RPD values greater than QC limit of 40%
- \* Values outside QC limits

| Comments: |  |  |  |  |
|-----------|--|--|--|--|
|           |  |  |  |  |

Quantitation Report (Not Reviewed)

731010

Data Path : C:\msdchem\1\DATA\030910-L\

Data File: L15892.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 9 Mar 10 6:59 pm

Operator : MG

Sample : 65979-11, 1:5

Misc

ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 10 08:48:43 2010

Quant Method: C:\msdchem\1\METHODS\54SP30210.M

Quant Title :

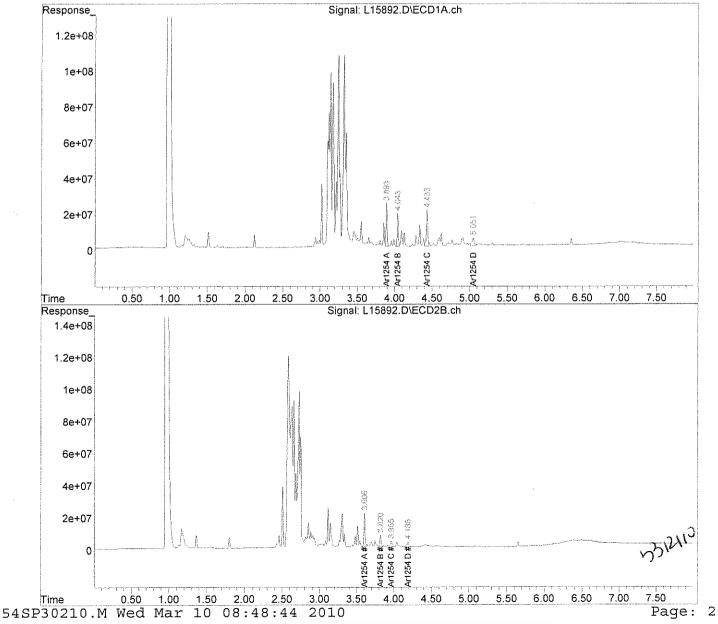
QLast Update : Mon Mar 08 18:20:16 2010

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. :

Signal #1 Phase: Signal #2 Phase: Signal #1 Info: Signal #2 Info:





CLIENT SAMPLE ID

**Project Name:** 

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

PTC-CBK-1332-0431

March 12, 2010

SAMPLE DATA

Lab Sample ID:

65979-12

Matrix:

Solid

Percent Solid:

99

Dilution Factor:

37200

**Collection Date:** 

03/02/10

Lab Receipt Date:

03/03/10

**Extraction Date:** 

03/04/10

**Analysis Date:** 

03/10/10

|          | PCB ANALYTICAL RESUL           | LTS              |
|----------|--------------------------------|------------------|
| COMPOUND | Quantitation<br>Limit μg/kg    | Results<br>μg/kg |
| PCB-1016 | 1228000                        | U                |
| PCB-1221 | 1228000                        | U                |
| PCB-1232 | 1228000                        | U                |
| PCB-1242 | 1228000                        | U                |
| PCB-1248 | 1228000                        | U                |
| PCB-1254 | 1228000                        | 20600000         |
| PCB-1260 | 1228000                        | U                |
|          |                                |                  |
|          |                                |                  |
|          | Surrogate Standard Recovery    |                  |
|          | 2,4,5,6-Tetrachloro-m-xylene * | %                |
|          | Decachlorobiphenyl *           | %                |

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

J=Estimated E=Exceeds Calibration Range B=Detected in

COMMENTS:

Results are expressed on a dry weight basis.

\* The surrogates were diluted out.

U=Undetected

PCB Report

Authorized signature

Instrument ID: L

SDG: 65979

GC Column #1: STX-CLPesticides I

Sample: 65979-12, 1:5000

Column ID: 0.25 mm

Data File: L15912.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 37151.1

Column ID: 0.25 mm

Column #1

Column #2

| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD  | # |
|----------|-----------------------|-----------------------|------|---|
| PCB 1254 | 15078833              | 20619735              | 31.0 |   |

# Column to be used to flag RPD values greater than QC limit of 40%

\* Values outside QC limits

| Comments: |  |  |  |
|-----------|--|--|--|

Data Path: C:\msdchem\1\DATA\030910-L\

Data File: L15912.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 10 Mar 10 12:07 pm

Operator : MG

Sample : 65979-12, 1:5000

Misc

ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e

Quant Time: Mar 12 10:05:27 2010

Quant Method: C:\msdchem\1\METHODS\54SP30210.M

Quant Title :

QLast Update : Mon Mar 08 18:20:16 2010

Response via : Initial Calibration

Integrator: ChemStation

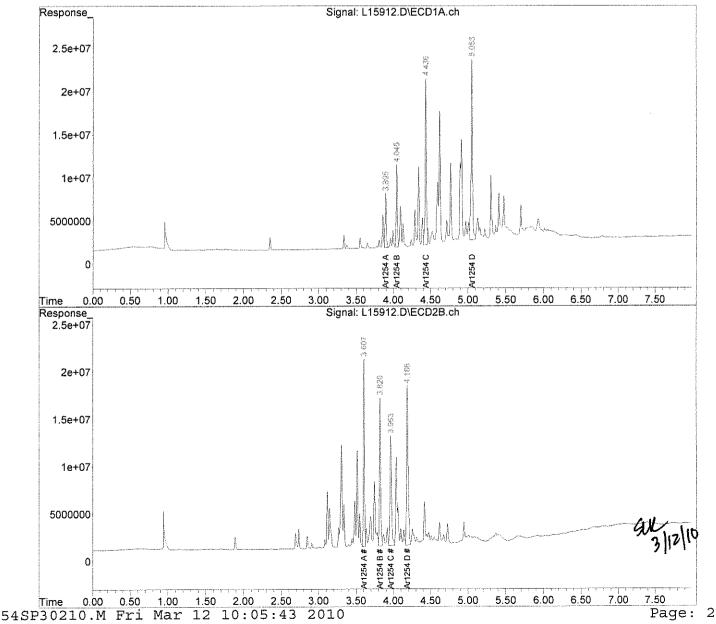
Volume Inj.

Signal #1 Phase : Signal #1 Info :

Signal #2 Phase:

Signal #2 Info :

03.11.13



File :C:\msdchem\1\DATA\030910-L\L15912.D

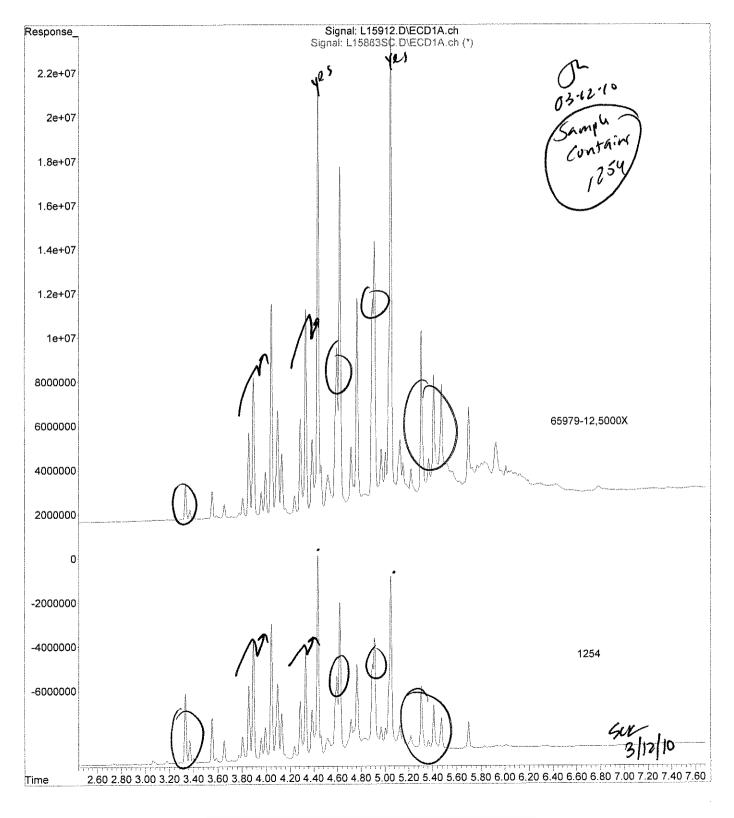
Operator : MG

Acquired : 10 Mar 10 12:07 pm using AcqMethod PEST.M

Instrument : Inst L

Sample Name: 65979-12, 1:5000

Misc Info : Vial Number: 10





**CLIENT SAMPLE ID** 

**Project Name:** 

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

PTC-CBC-1332-0432

March 12, 2010

### SAMPLE DATA

Lab Sample ID:

65979-13

Matrix:

Solid

Percent Solid:

94

**Dilution Factor:** 

10

**Collection Date:** 

03/02/10

Lab Receipt Date:

03/03/10

**Extraction Date:** 

03/05/10

Analysis Date:

03/08/10

| PCB ANALYTICAL RESULTS |                                                      |                  |  |  |
|------------------------|------------------------------------------------------|------------------|--|--|
| COMPOUND               | Quantitation<br>Limit μg/kg                          | Results<br>μg/kg |  |  |
| PCB-1016               | 330                                                  | U                |  |  |
| PCB-1221               | 330                                                  | U                |  |  |
| PCB-1232               | 330                                                  | U                |  |  |
| PCB-1242               | 330                                                  | U                |  |  |
| PCB-1248               | 330                                                  | U                |  |  |
| PCB-1254               | 330                                                  | U                |  |  |
| PCB-1260               | 330                                                  | 1490             |  |  |
|                        |                                                      |                  |  |  |
|                        | Surrogate Standard Recovery                          |                  |  |  |
| 2                      | ,4,5,6-Tetrachloro-m-xylene 97 Decachlorobiphenyl 77 | %<br>%           |  |  |
| U=Undetected J=Estin   | nated E=Exceeds Calibration Range                    | B=Detected in    |  |  |

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

 $Sample\ preparation\ conducted\ according\ to\ Test\ Methods\ for\ Evaluating\ Solid\ Waste,\ SW-846\ Method\ 3540C.$ 

COMMENTS:

Results are expressed on a dry weight basis.

PCB Report

Instrument ID: M

SDG: 65979

GC Column #1: STX-CLPesticides I

Sample: 65979-13

Column ID: 0.25 mm

Data File: M22861.D

Column 11. 0.23 mm

·

GC Column #2: STX-CLPesticides II

Dilution Factor: 10.3

Column ID: 0.25 mm

|          | Column #1             | Column #2             |     |   |
|----------|-----------------------|-----------------------|-----|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 1492                  | 1371                  | 8.4 |   |

# Column to be used to flag RPD values greater than QC limit of 40%

\* Values outside QC limits

| Comments: |  |  |
|-----------|--|--|
|           |  |  |

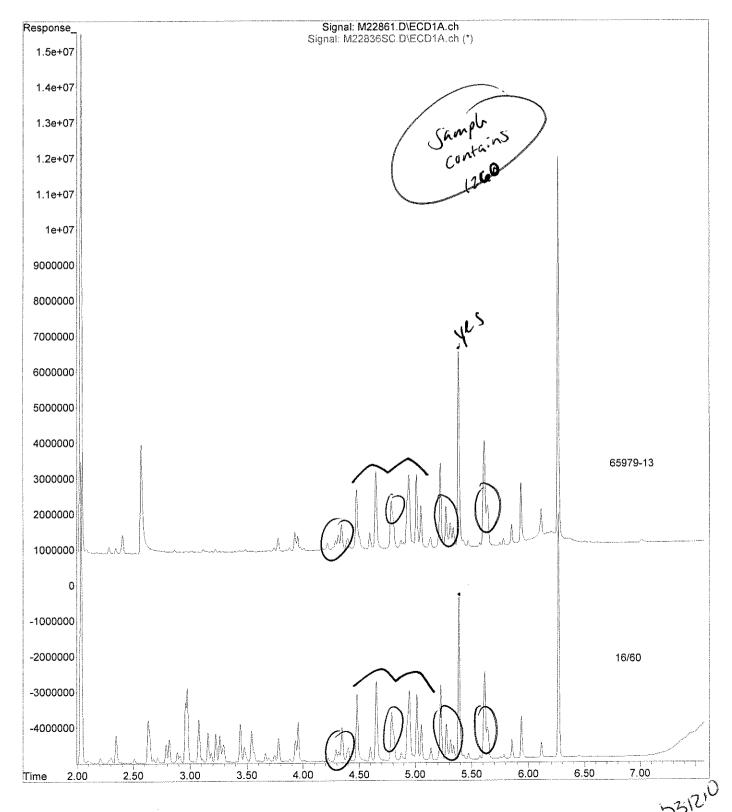
File :C:\msdchem\1\DATA\030810-M\M22861.D

Operator : JK

Acquired: 8 Mar 2010 4:49 pm using AcqMethod PCB.M

Instrument: Instrument M

Sample Name: 65979-13 Misc Info : SOIL Vial Number: 24





### CLIENT SAMPLE ID

Project Name:

Peabody Terrace

Project Number:

210980

Field Sample ID:

PTC-CBC-1332-0433

## March 10, 2010

### SAMPLE DATA

Lab Sample ID:

65979-14

Matrix:

Solid

Percent Solid:

98

**Dilution Factor:** 

10

**Collection Date:** 

03/02/10

Lab Receipt Date:

03/03/10 03/05/10

**Extraction Date: Analysis Date:** 

03/08/10

## PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation<br>Limit µg/kg | Results<br>μg/kg |
|----------|-----------------------------|------------------|
| PCB-1016 | 330                         | U                |
| PCB-1221 | 330                         | U                |
| PCB-1232 | 330                         | U                |
| PCB-1242 | 330                         | U                |
| PCB-1248 | 330                         | U                |
| PCB-1254 | 330                         | U                |
| PCB-1260 | 330                         | 827              |
|          |                             |                  |

### Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene

% 98

Decachlorobiphenyl

65 %

U=Undetected J=Estimated E=Exceeds Calibration Range

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature Mulul

Instrument ID: M

SDG: 65979

GC Column #1: STX-CLPesticides I

Sample: 65979-14

Column ID: 0.25 mm

Data File: M22862.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 10.1

Column ID: 0.25 mm

|          | Column #1             | Column #2             |     |   |
|----------|-----------------------|-----------------------|-----|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
| PCB 1260 | 827                   | 774                   | 6.6 |   |

# Column to be used to flag RPD values greater than QC limit of 40%

\* Values outside QC limits

| Comments: |  |  |
|-----------|--|--|
|           |  |  |

### Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\030810-M\

Data File : M22862.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 8 Mar 2010 5:00 pm

Operator : JK

Sample : 65979-14 Misc : SOIL

ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e

Quant Time: Mar 09 14:42:10 2010

Quant Method : C:\msdchem\1\METHODS\PCB020410.M

Quant Title : Aroclor 1016/1260

QLast Update : Thu Feb 04 11:18:55 2010

Response via : Initial Calibration

Integrator: ChemStation

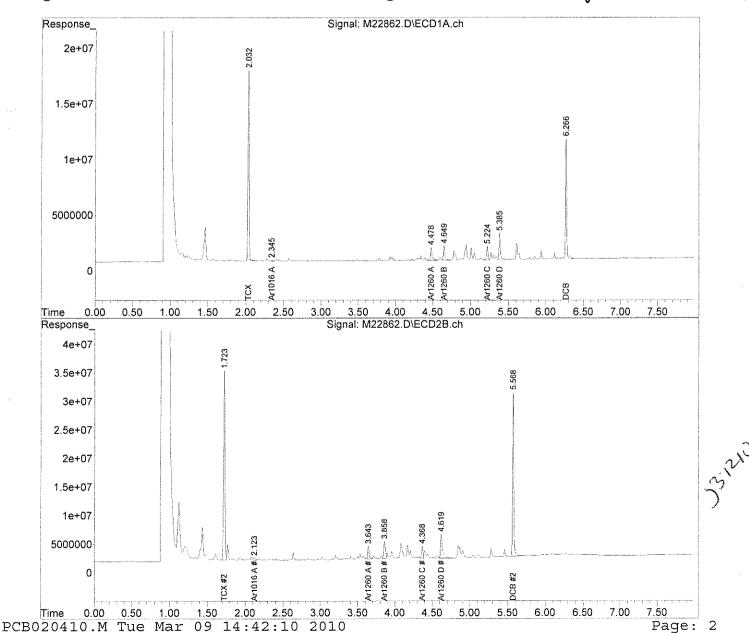
Volume Inj.

Signal #1 Phase : Signal #1 Info :

Signal #2 Phase:

Signal #2 Info :

03.04.00



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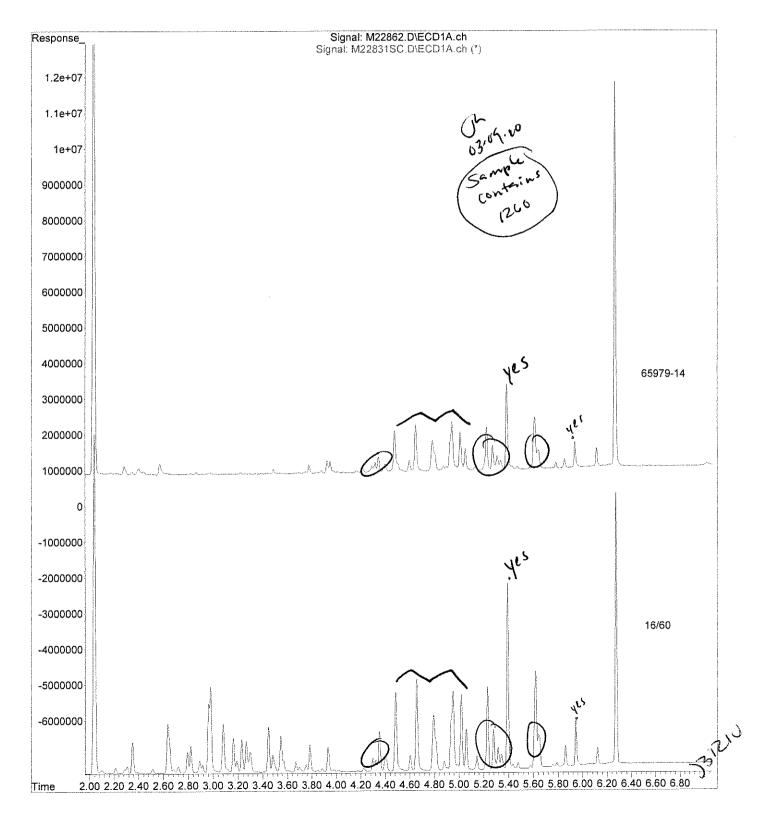
File :C:\msdchem\1\DATA\030810-M\M22862.D

Operator : JK

Acquired: 8 Mar 2010 5:00 pm using AcqMethod PCB.M

Instrument: Instrument M

Sample Name: 65979-14 Misc Info : SOIL Vial Number: 25





CLIENT SAMPLE ID

Project Name:

Peabody Terrace

Project Number:

210980

Field Sample ID:

PTC-CBCD-1332-0434

March 10, 2010

### SAMPLE DATA

Lab Sample ID:

65979-15

Matrix:

Solid

Percent Solid:

98

Dilution Factor:

10

Collection Date:

03/02/10

Lab Receipt Date: **Extraction Date:** 

03/03/10 03/05/10

**Analysis Date:** 

03/08/10

PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation<br>Limit μg/kg | Results<br>μg/kg |
|----------|-----------------------------|------------------|
| PCB-1016 | 330                         | U                |
| PCB-1221 | 330                         | U                |
| PCB-1232 | 330                         | U                |
| PCB-1242 | 330                         | U                |
| PCB-1248 | 330                         | U                |
| PCB-1254 | 330                         | U                |
| PCB-1260 | 330                         | 881              |
|          |                             |                  |

### Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene

92 %

Decachlorobiphenyl

75 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature Mulli

Instrument ID: M

SDG: 65979

GC Column #1: STX-CLPesticides I

Sample: 65979-15

Column ID: 0.25 mm

Data File: M22863.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 9.9

Column ID: 0.25 mm

| Column | #1    |  |
|--------|-------|--|
| Column | 11: T |  |

Column #2

| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
|----------|-----------------------|-----------------------|-----|---|
| PCB 1260 | 188                   | 837                   | 5.2 |   |

# Column to be used to flag RPD values greater than QC limit of 40%

\* Values outside QC limits

| Comments: |  |        |
|-----------|--|--------|
|           |  | ****** |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\030810-M\

Data File: M22863.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

8 Mar 2010 5:10 pm

Operator : JK

: 65979-15 Sample

: SOIL Misc

: 26 Sample Multiplier: 1 ALS Vial

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 09 15:24:15 2010

Quant Method : C:\msdchem\1\METHODS\PCB020410.M

Quant Title : Aroclor 1016/1260

QLast Update : Thu Feb 04 11:18:55 2010

Response via : Initial Calibration

Integrator: ChemStation

0.50

1.00

PCB020410.M Tue Mar 09 15:24:21 2010

1.50

2.00

3.00

Volume Inj.

Signal #1 Phase :

Signal #2 Phase:

Page: 2

Signal #1 Info Signal #2 Info : Signal: M22863.D\ECD1A.ch Response 2.032 1.5e+07 1e+07 5000000 5.224 4.649 (2.344 1260 C 1260 D Ar1260 A Ar1260 B 1016 A ٥ 4.50 6.00 6.50 7.00 7.50 2.50 3.00 3.50 4.00 5.00 5.50 1.50 2.00 1.00 Signal: M22863.D\ECD2B.ch Response\_ 723 3.5e+07 3e+07 2.5e+07 2e+07 1.5e+07 300° 1e+07 5000000 1016 C # 2.523 1016 A# Ar1260 B # 1260 D# Ar1260 A# Ar1260 C# 0 DCB #2 5.50 6.50 2.50 4.00 4.50 5.00 6.00 7.00 7.50

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3.50

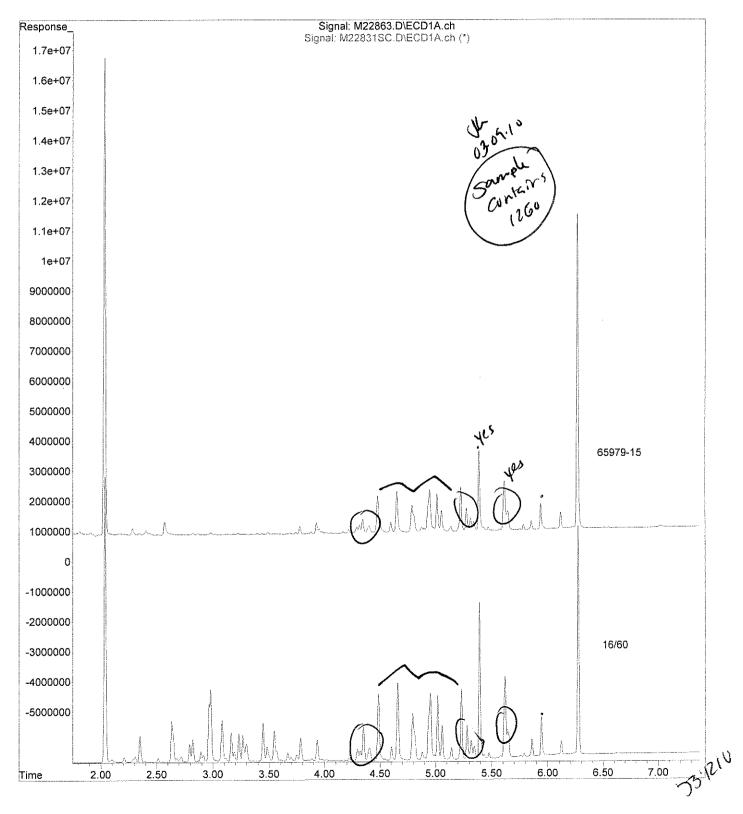
File :C:\msdchem\1\DATA\030810-M\M22863.D

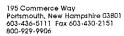
Operator : JK

Acquired: 8 Mar 2010 5:10 pm using AcqMethod PCB.M

Instrument : Instrument M

Sample Name: 65979-15 Misc Info : SOIL Vial Number: 26







#### CLIENT SAMPLE ID

Project Name:

Peabody Terrace

Project Number:

210980

Field Sample ID:

PTC-CWK-1332-0435

March 10, 2010

### SAMPLE DATA

Lab Sample ID:

65979-16

Matrix:

Wipe

Percent Solid:

N/A

Dilution Factor:

1.0

**Collection Date:** 

03/02/10

Lab Receipt Date:

03/03/10

**Extraction Date:** 

03/04/10

Analysis Date:

03/09/10

| PCB ANALYTICAL RESULTS |
|------------------------|
| Quantitation<br>Limit  |

Results ug/wipe **COMPOUND** ug/wipe PCB-1016 0.5 U 0.5 PCB-1221 U PCB-1232 0.5 U PCB-1242 0.5 U 0.5 PCB-1248 U 0.5 PCB-1254 2.6 0.5 Ū PCB-1260

### Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene

% 86

Decachlorobiphenyl

60 %

U=Undetected J=Estimated E=Exceeds Calibration Range

B=Detected in

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. COMMENTS:

PCBWipe

Instrument ID: L

SDG:

GC Column #1: STX-CLPesticides I

Sample: 65979-16

Column ID: 0.25 mm

Data File: L15868.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 1.0

Column ID: 0.25 mm

Column #1

Column #2

| COMPOUND | SAMPLE RESULT (ug/wipe) | SAMPLE RESULT (ug/wipe) | RPD  | # |
|----------|-------------------------|-------------------------|------|---|
| PCB 1254 | 2.6                     | 2.1                     | 17.3 |   |

# Column to be used to flag RPD values greater than QC limit of 40%

\* Values outside QC limits

| Comments: |  |
|-----------|--|
|           |  |
|           |  |

53-9-10

Data Path : C:\msdchem\1\DATA\030910-L\

Data File: L15868.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 9 Mar 10 11:36 am

Operator : MG

Sample : 65979-16

Misc

ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e

Quant Time: Mar 09 15:17:59 2010

Quant Method : C:\msdchem\1\METHODS\54SP30210.M

Quant Title :

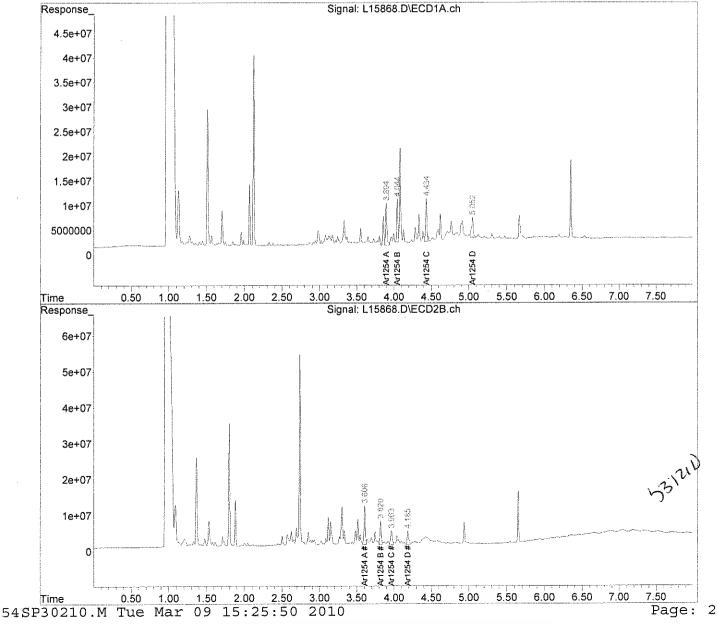
QLast Update : Mon Mar 08 18:20:16 2010

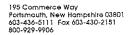
Response via: Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase: Signal #2 Phase: Signal #1 Info: Signal #2 Info:







CLIENT SAMPLE ID

Project Name:

Peabody Terrace

Project Number:

210980

Field Sample ID:

PTC-CWKD-1332-0436

March 10, 2010

SAMPLE DATA

Lab Sample ID:

65979-17

Matrix:

Wipe

Percent Solid:

N/A

**Dilution Factor:** 

1.0

**Collection Date:** 

03/02/10

Lab Receipt Date:

03/03/10

**Extraction Date:** 

03/04/10

**Analysis Date:** 

03/09/10

PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation<br>Limit<br>ug/wipe | Results<br>ug/wipe |
|----------|----------------------------------|--------------------|
| PCB-1016 | 0.5                              | U                  |
| PCB-1221 | 0.5                              | U                  |
| PCB-1232 | 0.5                              | U                  |
| PCB-1242 | 0.5                              | U                  |
| PCB-1248 | 0.5                              | U                  |
| PCB-1254 | 0.5                              | 2.7                |
| PCB-1260 | 0.5                              | U                  |
|          |                                  |                    |

### Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene

86 %

Decachlorobiphenyl

60 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

COMMENTS:

**PCBWipe** 

Authorized signature Mullill

Instrument ID: L

SDG:

GC Column #1: STX-CLPesticides I

Sample: 65979-17

Column ID: 0.25 mm

Data File: L15869.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 1.0

Column ID: 0.25 mm

Column #1

Column #2

| COMPOUND | SAMPLE RESULT (ug/wipe) | SAMPLE RESULT (ug/wipe) | RPD  | # |
|----------|-------------------------|-------------------------|------|---|
| PCB 1254 | 2.7                     | 1.9                     | 31.4 |   |

- # Column to be used to flag RPD values greater than QC limit of 40%
- \* Values outside QC limits

| Comments: |  |  |
|-----------|--|--|
|           |  |  |

23.10

Data Path : C:\msdchem\1\DATA\030910-L\

Data File: L15869.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

9 Mar 10 11:47 am Acq On

: MG Operator

: 65979-17 Sample

Misc

ALS Vial Sample Multiplier: 1 : 6

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 09 15:26:13 2010

Quant Method : C:\msdchem\1\METHODS\54SP30210.M

Ouant Title

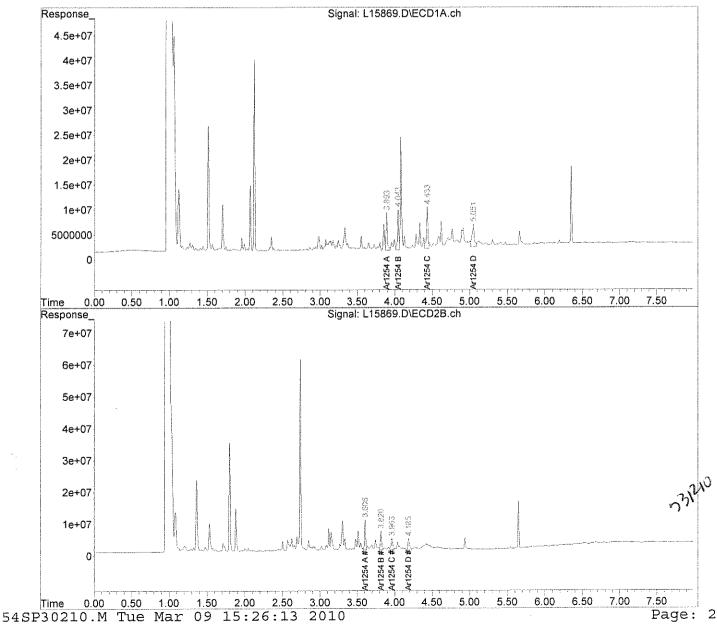
QLast Update : Mon Mar 08 18:20:16 2010

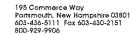
Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. Signal #1 Phase :

Signal #2 Phase: Signal #2 Info : Signal #1 Info







CLIENT SAMPLE ID

Project Name:

Peabody Terrace

Project Number:

210980

Field Sample ID:

PTC-CWK-1332-0437

March 10, 2010

SAMPLE DATA

Lab Sample ID:

65979-18

Matrix:

Wipe

Percent Solid:

N/A

Dilution Factor:

1.0

Collection Date:

03/02/10

Lab Receipt Date: **Extraction Date:** 

03/03/10 03/04/10

Analysis Date:

03/09/10

| PCB ANALYTICAL RESULTS |                                  |                    |  |  |
|------------------------|----------------------------------|--------------------|--|--|
| COMPOUND               | Quantitation<br>Limit<br>ug/wipe | Results<br>ug/wipe |  |  |
| PCB-1016               | 0.5                              | U                  |  |  |
| PCB-1221               | 0.5                              | U                  |  |  |
| PCB-1232               | 0.5                              | U                  |  |  |
| PCB-1242               | 0.5                              | U                  |  |  |
| PCB-1248               | 0.5                              | U                  |  |  |
| PCB-1254               | 0.5                              | U                  |  |  |
| PCB-1260               | 0.5                              | U                  |  |  |
|                        |                                  |                    |  |  |
|                        |                                  |                    |  |  |
|                        | Surrogate Standard Recovery      |                    |  |  |
| 2                      | ,4,5,6-Tetrachloro-m-xylene 87   | %                  |  |  |
|                        | Decachlorobiphenyl 62 9          | <b>%</b>           |  |  |

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. COMMENTS:

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in

PCBWipe

Authorized signature Mullull

Data Path : C:\msdchem\1\DATA\030910-L\

Data File : L15870.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

9 Mar 10 11:57 am Aca On

: MG Operator

Sample : 65979-18

Misc

5 By.

ALS Vial Sample Multiplier: 1 : 7

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: Mar 09 15:26:28 2010

Quant Method: C:\msdchem\1\METHODS\PB030210.M

Quant Title : Aroclor 1016/1260

QLast Update : Wed Mar 03 10:27:55 2010 Response via : Initial Calibration

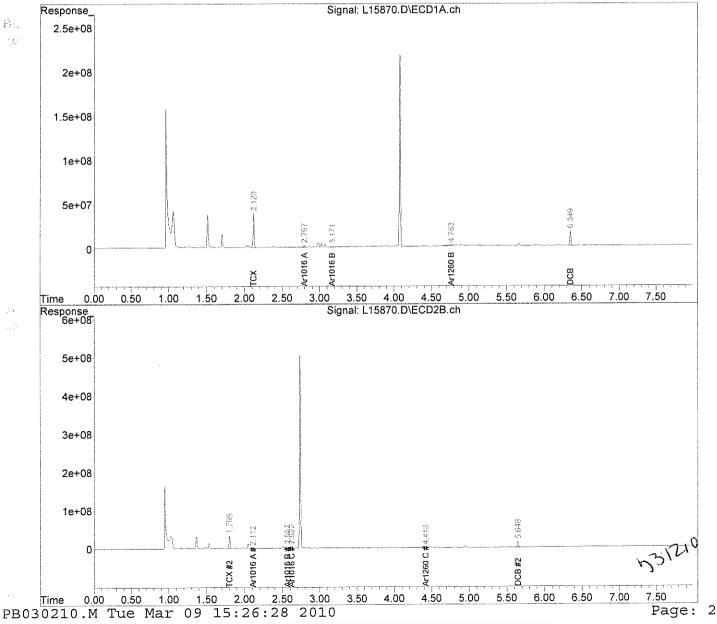
Integrator: ChemStation

: 3 ul Volume Inj.

Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore

Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um film

73.9.10





CLIENT SAMPLE ID

Project Name:

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

PTC-CWT-1332-0438

March 12, 2010

### SAMPLE DATA

Lab Sample ID:

65979-19

Matrix:

Wipe

N/A

Percent Solid: **Dilution Factor:** 

1.0

**Collection Date:** 

03/02/10

Lab Receipt Date:

03/03/10

**Extraction Date:** 

03/04/10

Analysis Date:

03/09/10

| PCB | ANAT            | УT | TCAL | RESUI | TS |
|-----|-----------------|----|------|-------|----|
|     | 4 4 4 4 4 4 4 4 | ,  |      |       |    |

| COMPOUND | Quantitation<br>Limit µg/wipe | Results<br>μg/wipe |
|----------|-------------------------------|--------------------|
| PCB-1016 | 0.5                           | U                  |
| PCB-1221 | 0.5                           | U                  |
| PCB-1232 | 0.5                           | U                  |
| PCB-1242 | 0.5                           | U                  |
| PCB-1248 | 0.5                           | U                  |
| PCB-1254 | 0.5                           | 0.5                |
| PCB-1260 | 0.5                           | U                  |
|          |                               |                    |

### Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene

91 %

Decachlorobiphenyl

% 66

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report

Authorized signature \_\_\_\_\_\_\_

SDG:

Instrument ID: L

GC Column #1: STX-CLPesticides I Sample: 65979-19

Column ID: 0.25 mm Data File: L15871.D

GC Column #2: STX-CLPesticides II Dilution Factor: 1.0

Column ID: 0.25 mm

Column #1

| COMPOUND | SAMPLE RESULT (ug/wipe) | SAMPLE RESULT (ug/wipe) | RPD  | # |
|----------|-------------------------|-------------------------|------|---|
| PCB 1254 | 0.4 <b>T</b>            | 0.5                     | 17.5 |   |

Column #2

- # Column to be used to flag RPD values greater than QC limit of 40%
- \* Values outside QC limits

| Comments: |  |  |
|-----------|--|--|
|           |  |  |

Data Path : C:\msdchem\1\DATA\030910-L\

Data File: L15871.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 9 Mar 10 12:07 pm

Operator : MG

Sample : 65979-19

Misc

ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e

Quant Time: Mar 09 15:26:36 2010

Quant Method : C:\msdchem\1\METHODS\PB030210.M

Quant Title : Aroclor 1016/1260

QLast Update : Wed Mar 03 10:27:55 2010

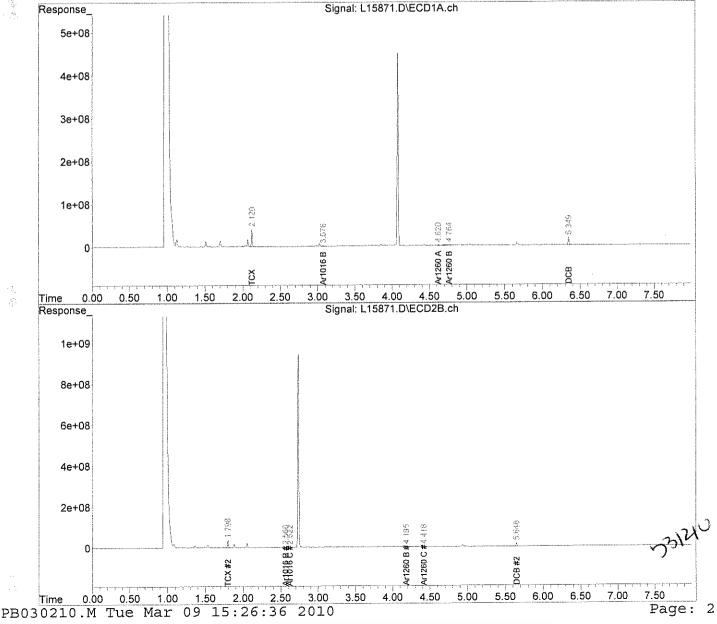
Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 3 ul

Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore

Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um film





#### CLIENT SAMPLE ID

Project Name:

Peabody Terrace

Project Number:

210980

Field Sample ID:

PTC-CWW-1332-0439

March 10, 2010 SAMPLE DATA

Lab Sample ID:

65979-20

Matrix:

Wipe

Percent Solid: **Dilution Factor:**  N/A 1.0

Collection Date:

03/02/10

Lab Receipt Date:

03/03/10

**Extraction Date:** 

03/04/10

Analysis Date: 03/09/10

|          | PCB ANALYTICAL RES               | ULTS         |                    |
|----------|----------------------------------|--------------|--------------------|
| COMPOUND | Quantitation<br>Limit<br>ug/wipe |              | Results<br>ug/wipe |
| PCB-1016 | 0.5                              |              | C)                 |
| PCB-1221 | 0.5                              |              | U                  |
| PCB-1232 | 0.5                              |              | U                  |
| PCB-1242 | 0.5                              |              | U                  |
| PCB-1248 | 0.5                              |              | U                  |
| PCB-1254 | 0.5                              |              | 1.1                |
| PCB-1260 | 0.5                              |              | U                  |
|          |                                  |              |                    |
|          | Surrogate Standard Recovery      |              |                    |
|          | •                                | 89 %<br>66 % |                    |

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. COMMENTS:

**PCBWipe** 

Authorized signature Mullill

Instrument ID: L

SDG:

GC Column #1: STX-CLPesticides I

Sample: 65979-20

Column ID: 0.25 mm

Data File: L15872.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 1.0

Column ID: 0.25 mm

Column #1

Column #2

| COMPOUND | SAMPLE RESULT (ug/wipe) | SAMPLE RESULT (ug/wipe) | RPD  | # |
|----------|-------------------------|-------------------------|------|---|
| PCB 1254 | 1.1                     | . 0.9                   | 23.9 |   |

- # Column to be used to flag RPD values greater than QC limit of 40%
- \* Values outside QC limits

| Comments |  | <br> |  |
|----------|--|------|--|
|          |  |      |  |

739.10

Data Path : C:\msdchem\1\DATA\030910-L\

Data File: L15872.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 9 Mar 10 12:18 pm

Operator : MG

Sample : 65979-20

Misc

ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 09 15:28:12 2010

Quant Method: C:\msdchem\1\METHODS\54SP30210.M

Quant Title :

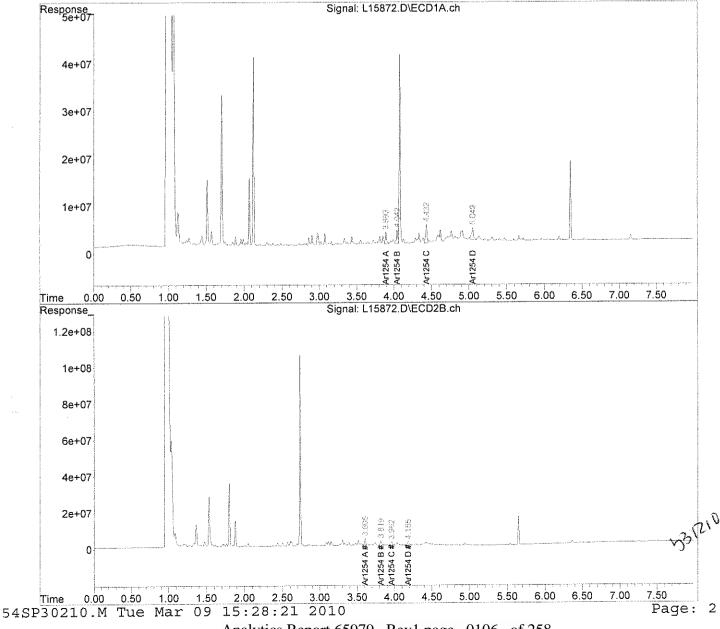
QLast Update : Mon Mar 08 18:20:16 2010

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase: Signal #2 Phase: Signal #1 Info: Signal #2 Info:





CLIENT SAMPLE ID

Project Name:

Peabody Terrace

Project Number:

210980

Field Sample ID:

PTC-CBK-1332-0441

March 10, 2010

### SAMPLE DATA

Lab Sample ID:

65979-22

Matrix:

Solid

Percent Solid:

99

**Dilution Factor:** 

165

Collection Date:

03/02/10

Lab Receipt Date:

03/03/10

**Extraction Date:** 

03/04/10

Analysis Date:

03/09/10

| PCB ANALYTICAL RESULTS |                             |                  |
|------------------------|-----------------------------|------------------|
| COMPOUND               | Quantitation<br>Limit μg/kg | Results<br>μg/kg |
| PCB-1016               | 5450                        | U                |
| PCB-1221               | 5450                        | U                |
| PCB-1232               | 5450                        | U                |
| PCB-1242               | 5450                        | U                |
| PCB-1248               | 5450                        | U                |
| PCB-1254               | 5450                        | 79300            |
| PCB-1260               | 5450                        | Ú                |
|                        |                             |                  |

### Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene

%

Decachlorobiphenyl

%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

Results are expressed on a dry weight basis.

\* The surrogates were diluted out.

PCB Report

Authorized signature Mullill

Instrument ID: L

SDG:

GC Column #1: STX-CLPesticides I

Sample: 65979-22, 1:20

Column ID: 0.25 mm

Data File: L15894.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 164.8

Column ID: 0.25 mm

Column #1

Column #2

| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD  | # |
|----------|-----------------------|-----------------------|------|---|
| PCB 1254 | 79332                 | 58167                 | 30.8 |   |

- # Column to be used to flag RPD values greater than QC limit of 40%
- \* Values outside QC limits

| Comments: |  |
|-----------|--|
|           |  |

### Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\030910-L\

Data File: L15894.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 9 Mar 10 7:19 pm

Operator : MG

Sample : 65979-22, 1:20

Misc

ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e

Quant Time: Mar 10 08:49:11 2010

Quant Method : C:\msdchem\1\METHODS\54SP30210.M

Quant Title :

QLast Update : Mon Mar 08 18:20:16 2010

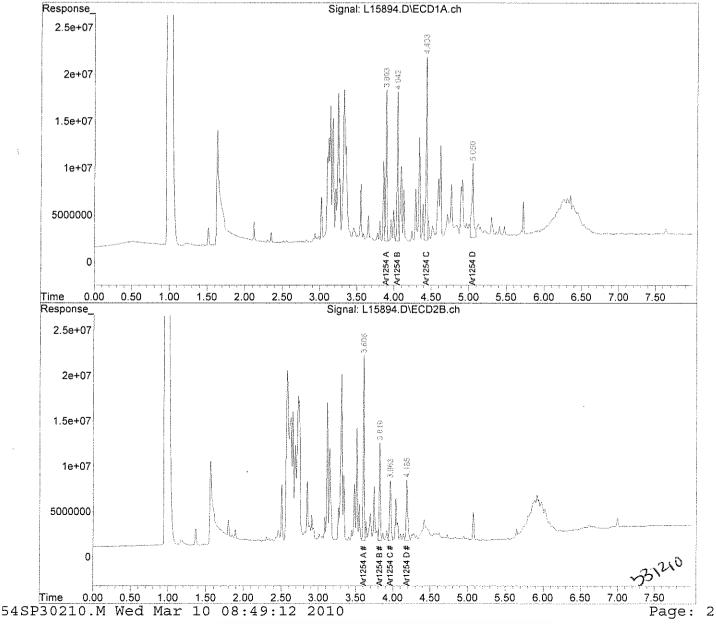
Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. :

Signal #1 Phase : Signal #1 Info :

Signal #2 Phase:
Signal #2 Info :







### CLIENT SAMPLE ID

Project Name:

Peabody Terrace

Project Number:

210980

Field Sample ID:

PTC-CWK-1332-0442

March 10, 2010

## SAMPLE DATA

Lab Sample ID:

65979-23

Matrix:

Wipe

Percent Solid:

N/A

Dilution Factor: **Collection Date:** 

1.0

Lab Receipt Date:

03/02/10

**Extraction Date:** 

03/03/10 03/04/10

Analysis Date:

03/09/10

| COMPOUND         Quantitation Limit ug/wipe         Results ug/wipe           PCB-1016         0.5         U           PCB-1221         0.5         U           PCB-1232         0.5         U           PCB-1242         0.5         U           PCB-1248         0.5         U           PCB-1254         0.5         U           PCB-1260         0.5         U |          | PCB ANALYTICAL RESULTS            |   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------------------------|---|
| PCB-1221       0.5       U         PCB-1232       0.5       U         PCB-1242       0.5       U         PCB-1248       0.5       U         PCB-1254       0.5       U                                                                                                                                                                                             | COMPOUND | Quantitation<br>Limit<br>ug/wipe  |   |
| PCB-1232       0.5       U         PCB-1242       0.5       U         PCB-1248       0.5       U         PCB-1254       0.5       U                                                                                                                                                                                                                                | PCB-1016 | 0.5                               | U |
| PCB-1242       0.5       U         PCB-1248       0.5       U         PCB-1254       0.5       U                                                                                                                                                                                                                                                                   | PCB-1221 | 0.5                               | U |
| PCB-1248 0.5 U PCB-1254 0.5 U                                                                                                                                                                                                                                                                                                                                      | PCB-1232 | 0.5                               | U |
| PCB-1254 0.5 U                                                                                                                                                                                                                                                                                                                                                     | PCB-1242 | 0.5                               | U |
|                                                                                                                                                                                                                                                                                                                                                                    | PCB-1248 | 0.5                               | U |
| PCB-1260 0.5 U                                                                                                                                                                                                                                                                                                                                                     | PCB-1254 | 0.5                               | U |
|                                                                                                                                                                                                                                                                                                                                                                    | PCB-1260 | 0.5                               | U |
|                                                                                                                                                                                                                                                                                                                                                                    |          | Surrogate Standard Recovery       |   |
| Surrogate Standard Recovery                                                                                                                                                                                                                                                                                                                                        | 2        | 2,4,5,6-Tetrachloro-m-xylene 90 % |   |
|                                                                                                                                                                                                                                                                                                                                                                    |          | Decachlorobiphenyl 67 %           |   |

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in

COMMENTS:

PCBWipe

Data Path : C:\msdchem\1\DATA\030910-L\

Data File: L15873.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

9 Mar 10 12:28 pm Acq On

: MG Operator

: 65979-23 Sample

Misc

ALS Vial Sample Multiplier: 1 : 10

Integration File signal 1: autoint1.e Integration File signal 2: autoint2.e

Quant Time: Mar 09 15:32:04 2010

Quant Method: C:\msdchem\1\METHODS\PB030210.M

Quant Title : Aroclor 1016/1260

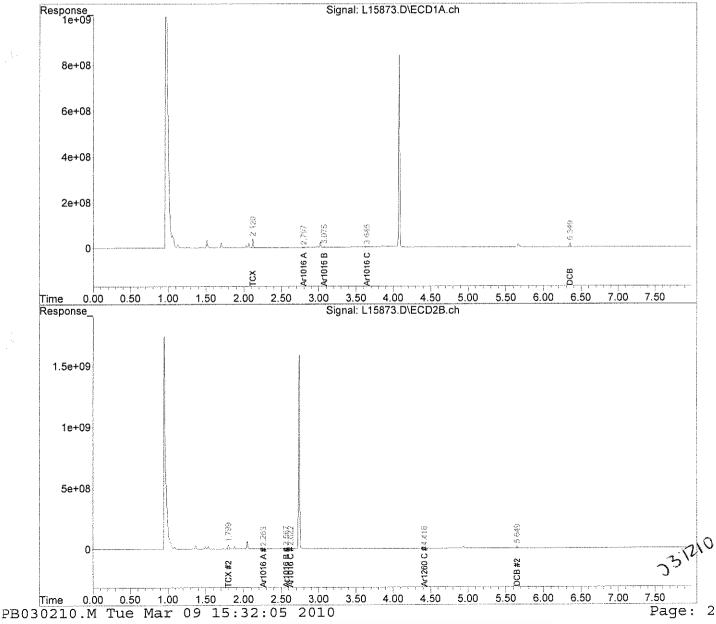
QLast Update : Wed Mar 03 10:27:55 2010 Response via : Initial Calibration

Integrator: ChemStation

: 3 ul Volume Inj.

Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore

Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um film



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#### **CLIENT SAMPLE ID**

Project Name:

Peabody Terrace

Project Number:

210980

Field Sample ID:

PTC-CWK-1332-0443

March 10, 2010

### SAMPLE DATA

Lab Sample ID:

65979-24

Matrix:

Wipe

Percent Solid:

N/A

**Dilution Factor:** 

1.0

Collection Date:

03/02/10

Lab Receipt Date: **Extraction Date:** 

03/03/10 03/04/10

Analysis Date:

03/09/10

|                | PCB ANALYTICAL RESULTS                                |                    |  |  |  |
|----------------|-------------------------------------------------------|--------------------|--|--|--|
| COMPOUND       | Quantitation<br>Limit<br>ug/wipe                      | Results<br>ug/wipe |  |  |  |
| PCB-1016       | 0.5                                                   | U                  |  |  |  |
| PCB-1221       | 0.5                                                   | U                  |  |  |  |
| PCB-1232       | 0.5                                                   | U                  |  |  |  |
| PCB-1242       | 0.5                                                   | U                  |  |  |  |
| PCB-1248       | 0.5                                                   | U                  |  |  |  |
| PCB-1254       | 0.5                                                   | 0.9 P              |  |  |  |
| PCB-1260       | 0.5                                                   | U                  |  |  |  |
|                |                                                       |                    |  |  |  |
|                |                                                       |                    |  |  |  |
|                | Surrogate Standard Recovery                           |                    |  |  |  |
|                | 2,4,5,6-Tetrachloro-m-xylene 87 Decachlorobiphenyl 67 | %<br>%             |  |  |  |
| U=Undetected . | J=Estimated E=Exceeds Calibration Range               | B=Detected in      |  |  |  |

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

COMMENTS:

P=Sample did not meet confirmation acceptance criteria for percent difference.

PCBWipe

Authorized signature Myllill

Instrument ID: L SDG:

GC Column #1: STX-CLPesticides I Sample: 65979-24

Column ID: 0.25 mm Data File: L15874.D

GC Column #2: STX-CLPesticides II Dilution Factor: 1.0

Column ID: 0.25 mm

Column #1 Column #2

| COMPOUND | SAMPLE RESULT (ug/wipe) | SAMPLE RESULT (ug/wipe) | RPD  | # |
|----------|-------------------------|-------------------------|------|---|
| PCB 1254 | 0.9                     | 0.6                     | 43.4 | * |

# Column to be used to flag RPD values greater than QC limit of 40%

\* Values outside QC limits

| Comments: |  |
|-----------|--|
|           |  |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\030910-L\

Data File : L15874.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 9 Mar 10 12:38 pm

Operator : MG

Sample : 65979-24

Misc

ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 09 15:33:40 2010

Quant Method : C:\msdchem\1\METHODS\54SP30210.M

Quant Title

QLast Update : Mon Mar 08 18:20:16 2010

Response via : Initial Calibration

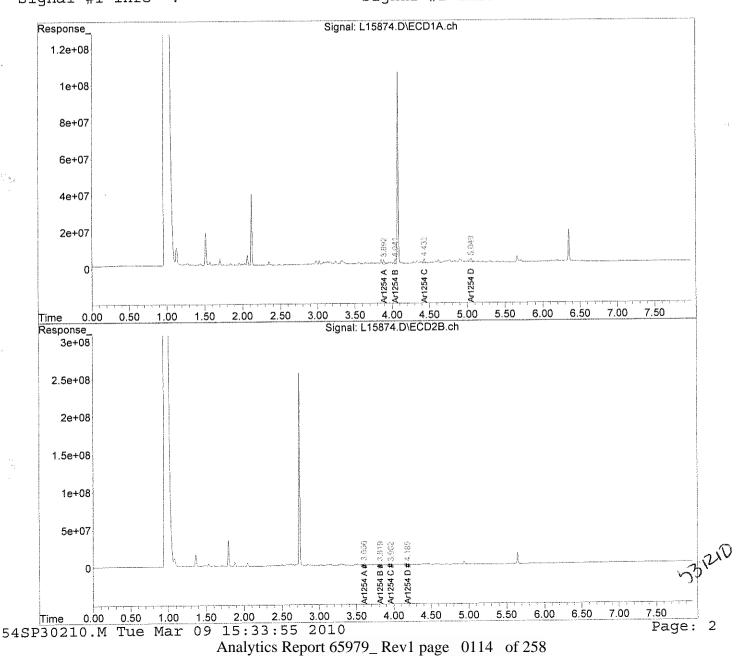
Integrator: ChemStation

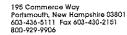
Volume Inj.

Signal #1 Phase : Signal #1 Info :

Signal #2 Phase:
Signal #2 Info :

73-9160







CLIENT SAMPLE ID

Project Name:

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

PTC-CBK-1332-0444

March 12, 2010

#### SAMPLE DATA

Lab Sample ID:

65979-25

Matrix:

Solid

Percent Solid:

100

Dilution Factor:

53

**Collection Date:** 

03/02/10

Lab Receipt Date:

03/03/10

**Extraction Date:** 

03/04/10

Analysis Date:

03/09/10

| PCB ANALYTICAL RESULT | S |
|-----------------------|---|
|                       |   |

| COMPOUND | Quantitation<br>Limit μg/kg | Results<br>μg/kg |
|----------|-----------------------------|------------------|
| PCB-1016 | 1750                        | U                |
| PCB-1221 | 1750                        | U                |
| PCB-1232 | 1750                        | U·               |
| PCB-1242 | 1750                        | U                |
| PCB-1248 | 1750                        | U                |
| PCB-1254 | 1750                        | 24300 P          |
| PCB-1260 | 1750                        | U                |
|          |                             |                  |

### Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene

%

Decachlorobiphenyl

% 60

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

COMMENTS:

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Results are expressed on a dry weight basis. P=Sample did not meet confirmation acceptance criteria for percent

difference.

PCB Report

Authorized signature Whilell

# PCB COLUMN RELATIVE PERCENT DIFFERENCE

Dilution Factor: 52.6

Instrument ID: L SDG:
GC Column #1: STX-CLPesticides I Sample: 6597

GC Column #1: STX-CLPesticides I Sample: 65979-25, 1:10

Column ID: 0.25 mm Data File: L15893.D

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

|          | Column #1             | Column #2             |      |   |
|----------|-----------------------|-----------------------|------|---|
| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD  | # |
| PCB 1254 | 24284                 | 12866                 | 61.5 | * |

# Column to be used to flag RPD values greater than QC limit of 40%

\* Values outside QC limits

| Comments: |  |  |
|-----------|--|--|
|           |  |  |

#### Quantitation Report (Not Reviewed)

10.10

Data Path : C:\msdchem\1\DATA\030910-L\

Data File: L15893.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On 9 Mar 10 7:09 pm

Operator : MG

Sample : 65979-25, 1:10

Misc

ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 10 08:49:03 2010

Quant Method: C:\msdchem\1\METHODS\54SP30210.M

Quant Title

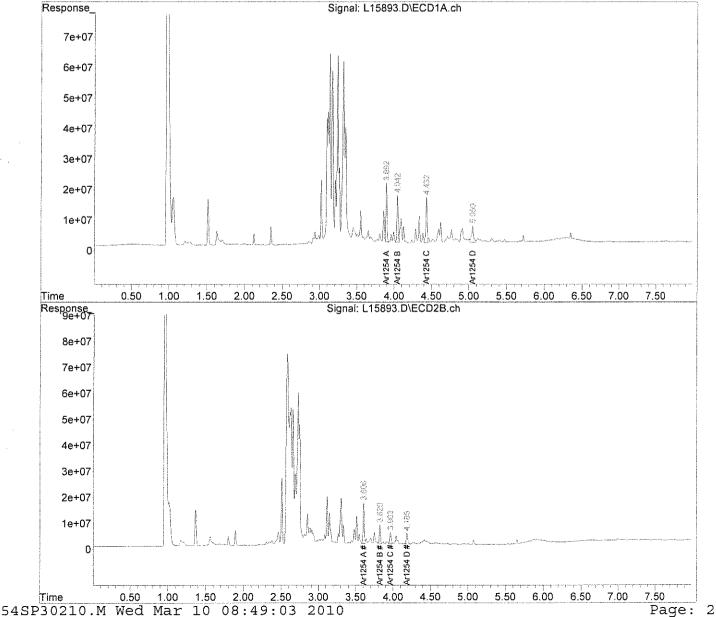
QLast Update : Mon Mar 08 18:20:16 2010

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase : Signal #2 Phase: Signal #1 Info Signal #2 Info :



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CLIENT SAMPLE ID

Project Name:

Peabody Terrace

Project Number:

210980

Field Sample ID:

PTC-CWT-1332-0445

March 11, 2010

SAMPLE DATA

Lab Sample ID:

65979-26 RR

Matrix:

Wipe

Percent Solid:

N/A

**Dilution Factor:** 

1.0

**Collection Date:** 

03/02/10

Lab Receipt Date: **Extraction Date:** 

03/03/10 03/04/10

Analysis Date:

03/09/10

|                  | PCB ANALYTICAL RESUL                                  | TS                                     |
|------------------|-------------------------------------------------------|----------------------------------------|
| COMPOUND         | Quantitation<br>Limit μg/wipe                         | Results $\mu \mathrm{g}/\mathrm{wipe}$ |
| PCB-1016         | 0.5                                                   | U                                      |
| PCB-1221         | 0.5                                                   | U                                      |
| PCB-1232         | 0.5                                                   | U                                      |
| PCB-1242         | 0.5                                                   | U                                      |
| PCB-1248         | 0.5                                                   | U                                      |
| PCB-1254         | 0.5                                                   | U                                      |
| PCB-1260         | 0.5                                                   | U                                      |
|                  |                                                       |                                        |
|                  |                                                       |                                        |
|                  | Surrogate Standard Recovery                           |                                        |
|                  | 2,4,5,6-Tetrachloro-m-xylene 91 Decachlorobiphenyl 80 | %<br>%                                 |
| U=Undetected J=E | stimated E=Exceeds Calibration Range                  | B=Detected in                          |

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report

### Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\030910-M\

Data File: M22931.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 9 Mar 2010 5:28 pm

Operator : JK

Sample : 65979-26,RR,,A/C

Misc : SOIL

ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 10 11:59:47 2010

Quant Method : C:\msdchem\1\METHODS\PCB020410.M

Quant Title : Aroclor 1016/1260

QLast Update : Thu Feb 04 11:18:55 2010

Response via : Initial Calibration

Integrator: ChemStation

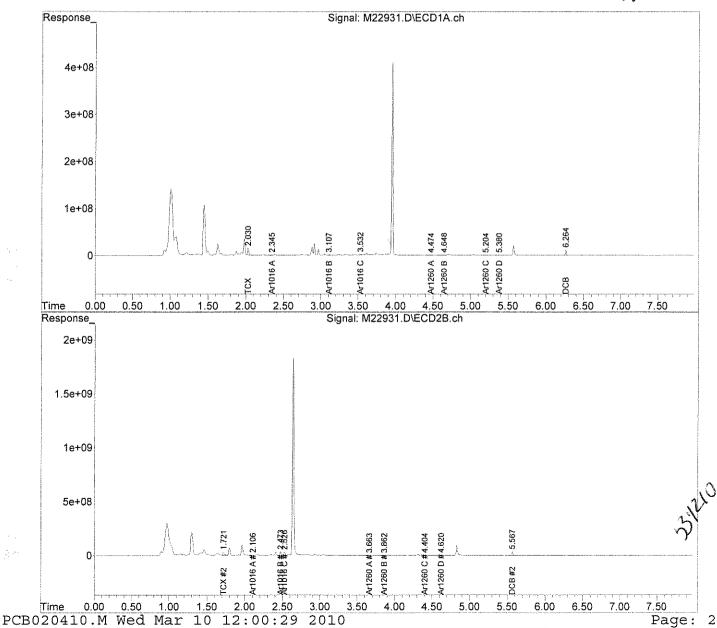
Volume Inj. :

Signal #1 Phase : Signal #1 Info :

Signal #2 Phase:

Signal #2 Info :

12.10-10



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CLIENT SAMPLE ID

Project Name:

Peabody Terrace

Project Number:

210980

Field Sample ID:

PTC-CWW-1332-0446

March 11, 2010 **SAMPLE DATA** 

Lab Sample ID:

65979-27 RR

Matrix:

Wipe

N/A

Percent Solid: Dilution Factor:

N/A 1.0

03/02/10

Collection Date:
Lab Receipt Date:

03/03/10

Extraction Date:

03/03/10

Analysis Date:

03/09/10

|              | PCB ANALYTICAL RESUL                                   | TS                 |
|--------------|--------------------------------------------------------|--------------------|
| COMPOUND     | Quantitation<br>Limit μg/wipe                          | Results<br>μg/wipe |
| PCB-1016     | 0.5                                                    | U                  |
| PCB-1221     | 0.5                                                    | U                  |
| PCB-1232     | 0.5                                                    | U                  |
| PCB-1242     | 0.5                                                    | U                  |
| PCB-1248     | 0.5                                                    | U                  |
| PCB-1254     | 0.5                                                    | U                  |
| PCB-1260     | 0.5                                                    | U                  |
|              |                                                        |                    |
|              |                                                        |                    |
|              | Surrogate Standard Recovery                            |                    |
|              | 2,4,5,6-Tetrachloro-m-xylene 103 Decachlorobiphenyl 85 | %<br>%             |
| U=Undetected | J=Estimated E=Exceeds Calibration Range                | B=Detected in      |

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report

Authorized signature Mulull

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\030910-M\

Data File: M22932.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

9 Mar 2010 Acq On 5:38 pm

Operator : JK

: 65979-27,RR,,A/C Sample

Misc SOIL

ALS Vial 11 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 10 12:00:42 2010

Quant Method: C:\msdchem\1\METHODS\PCB020410.M

Quant Title : Aroclor 1016/1260

QLast Update: Thu Feb 04 11:18:55 2010 Response via: Initial Calibration

Integrator: ChemStation

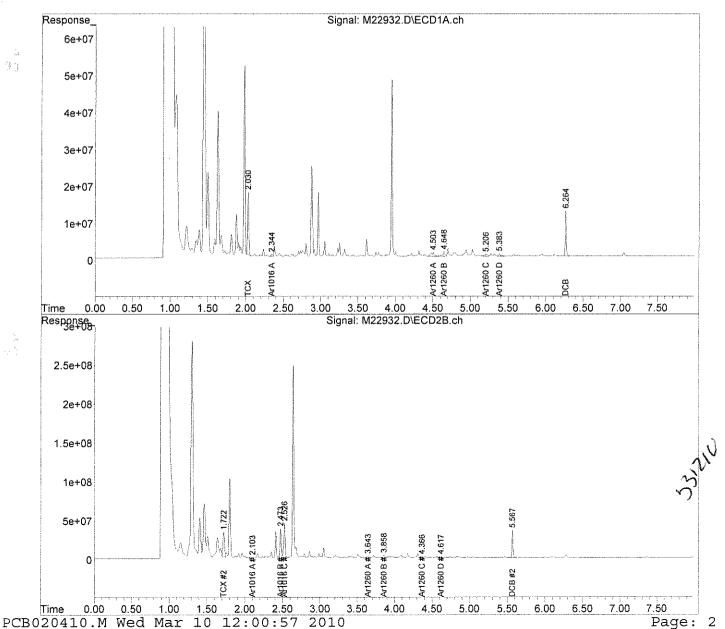
Volume Inj.

Signal #1 Phase : Signal #1 Info

99

Signal #2 Phase:

Signal #2 Info :



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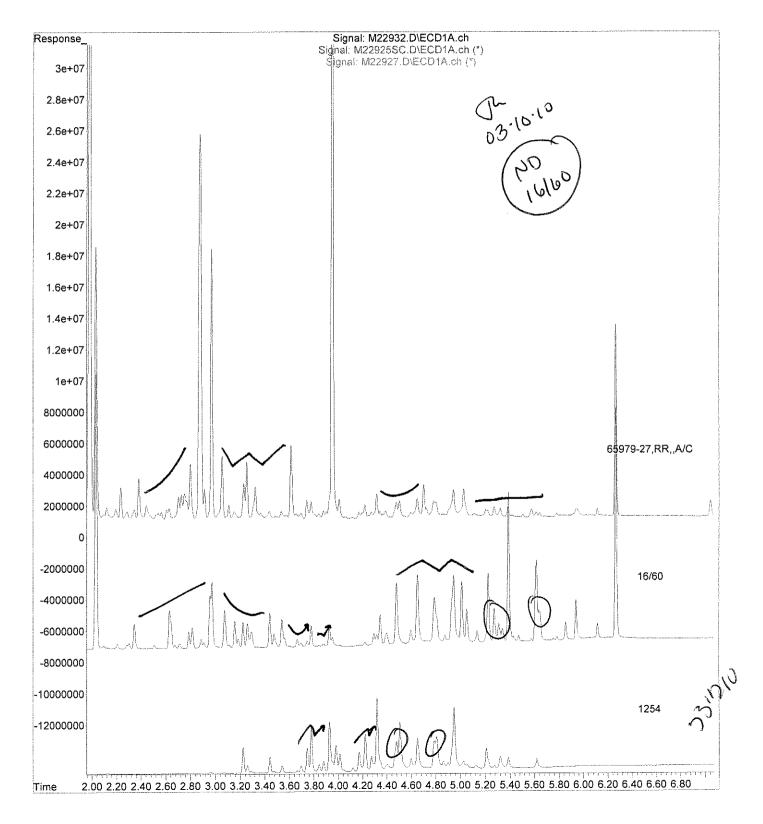
File :C:\msdchem\1\DATA\030910-M\M22932.D

Operator : JK

Acquired : 9 Mar 2010 5:38 pm using AcqMethod PCB.M

Instrument : Instrument M
Sample Name: 65979-27,RR,,A/C

Misc Info : SOIL Vial Number: 11





CLIENT SAMPLE ID

Project Name:

Peabody Terrace

Project Number:

210980

Field Sample ID:

PTC-CWM-1332-0447

March 11, 2010

SAMPLE DATA

Lab Sample ID:

65979-28 RR

Matrix:

Wipe

Percent Solid: Dilution Factor: N/A 1.0

Collection Date:

03/02/10

Lab Receipt Date:

03/03/10

**Extraction Date:** 

03/04/10

Analysis Date:

03/09/10

|  | PCB | ANALY | TICAL | RESULTS |
|--|-----|-------|-------|---------|
|--|-----|-------|-------|---------|

| COMPOUND | Quantitation Limit $\mu$ g/wipe | Results $\mu g/wipe$ |
|----------|---------------------------------|----------------------|
| PCB-1016 | 0.5                             | U                    |
| PCB-1221 | 0.5                             | U                    |
| PCB-1232 | 0.5                             | U                    |
| PCB-1242 | 0.5                             | U                    |
| PCB-1248 | 0.5                             | U                    |
| PCB-1254 | 0.5                             | U                    |
| PCB-1260 | 0.5                             | · U                  |
|          |                                 |                      |
|          |                                 |                      |
|          | 2                               |                      |

### Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene

101 %

Decachlorobiphenyl

89 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report

Authorized signature Mulicul

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#### Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\030910-M\

Data File: M22933.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On 9 Mar 2010 5:48 pm

Operator : JK

Sample : 65979-28,RR,,A/C

Misc : SOIL

ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 10 12:03:55 2010

Quant Method: C:\msdchem\1\METHODS\PCB020410.M

Quant Title : Aroclor 1016/1260

QLast Update: Thu Feb 04 11:18:55 2010 Response via: Initial Calibration

Integrator: ChemStation

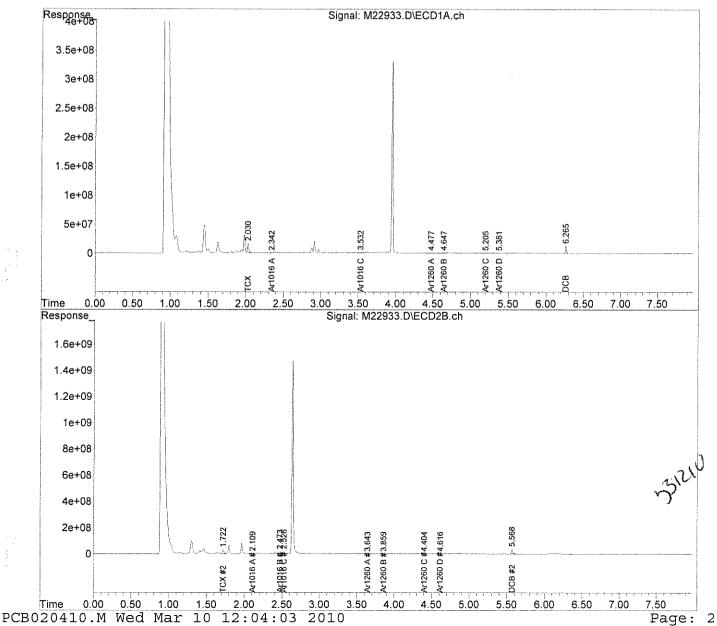
Volume Inj.

Signal #1 Phase : Signal #1 Info

Signal #2 Phase:

Signal #2 Info :

03.10.10



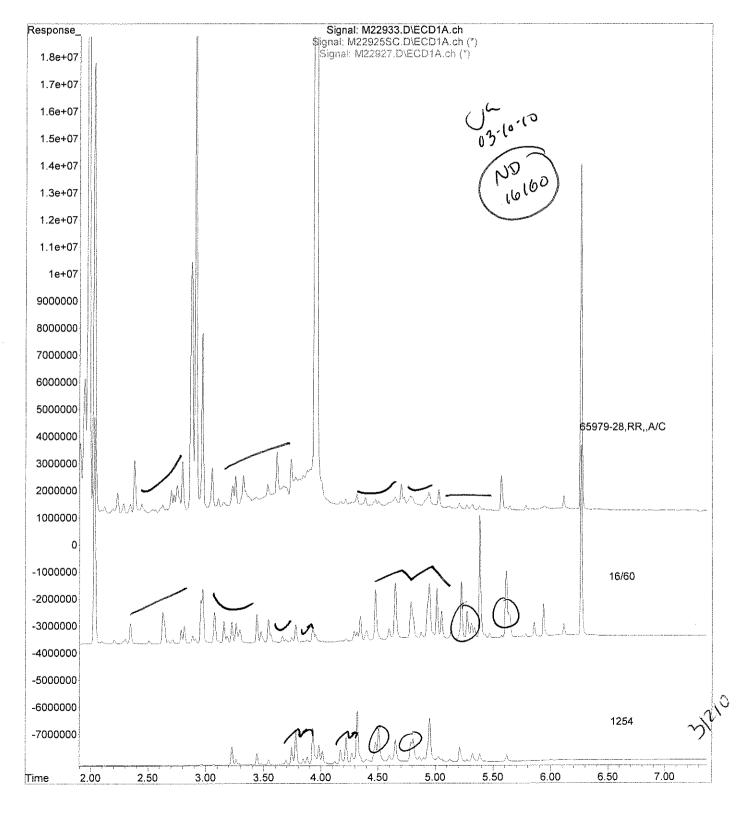
File :C:\msdchem\1\DATA\030910-M\M22933.D

Operator : JK

Acquired: 9 Mar 2010 5:48 pm using AcqMethod PCB.M

Instrument : Instrument M
Sample Name: 65979-28,RR,,A/C

Misc Info : SOIL Vial Number: 12





CLIENT SAMPLE ID

Project Name:

Peabody Terrace

Project Number:

210980

Field Sample ID:

PTB-CBK-11510-0448

March 12, 2010

SAMPLE DATA

Lab Sample ID:

65979-29

Matrix:

Solid

Percent Solid:

99

**Dilution Factor:** 

315300

**Collection Date:** 

03/02/10

Lab Receipt Date:

03/03/10

**Extraction Date:** 

03/04/10

Analysis Date:

03/11/10

| PCB | ANALY | TICAL | RESULTS |
|-----|-------|-------|---------|
|     |       |       |         |

| СОМР    | POUND | Quantitation<br>Limit µg/kg | Results<br>μg/kg |
|---------|-------|-----------------------------|------------------|
| PCB-10  |       | 10405000                    | U                |
| PCB-122 | 21    | 10405000                    | U                |
| PCB-123 | 32    | 10405000                    | U                |
| PCB-124 | 42    | 10405000                    | U                |
| PCB-124 | 48    | 10405000                    | U                |
| PCB-125 | 54    | 10405000                    | 112000000        |
| PCB-126 | 60    | 10405000                    | U                |
|         |       |                             |                  |

#### Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene

%

Decachlorobiphenyl

%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

Results are expressed on a dry weight basis.

\* The surrogates were diluted out.

PCB Report

Authorized signature

# PCB COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M

SDG: 65979

GC Column #1: STX-CLPesticides I

Sample: 65979-29,50000X,,A/C

Column ID: 0.25 mm

Data File: M22991,D

GC Column #2: STX-CLPesticides II

Dilution Factor: 315288.3

Column ID: 0.25 mm

Column #1

Column #2

| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD  | # |
|----------|-----------------------|-----------------------|------|---|
| PCB 1254 | 100303701             | 111758915             | 10.8 |   |

- # Column to be used to flag RPD values greater than QC limit of 40%
- \* Values outside QC limits

| Comments |  |
|----------|--|
|          |  |

Data Path : C:\msdchem\1\DATA\031110-M\

Data File: M22991.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

: 11 Mar 2010 Acq On 10:52 am

Operator : JK

: 65979-29,50000X,,A/C Sample

: SOIL Misc

ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 11 13:23:07 2010

Quant Method: C:\msdchem\1\METHODS\54SP020410.M

Quant Title

QLast Update : Fri Feb 05 08:08:17 2010

Response via : Initial Calibration

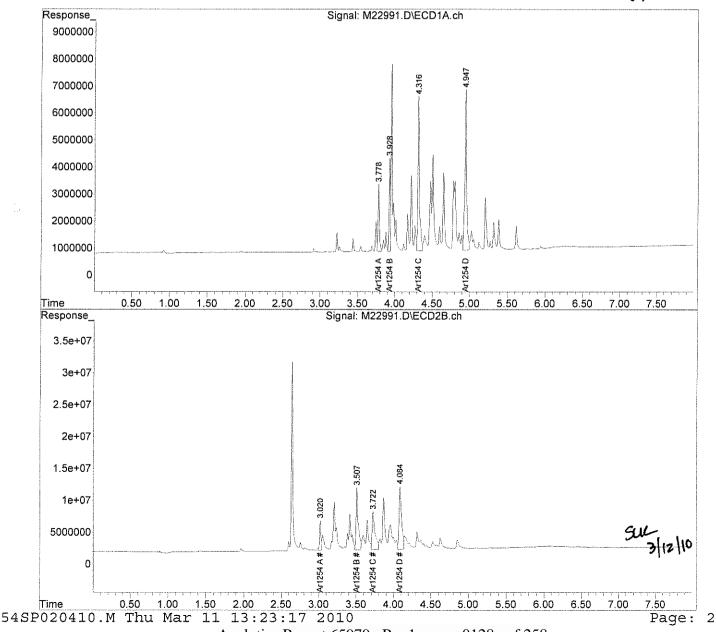
%Integrator: ChemStation

Volume Inj.

Signal #1 Phase : Signal #1 Info

Signal #2 Phase:

Signal #2 Info :



File :C:\msdchem\1\DATA\031110-M\M22991.D

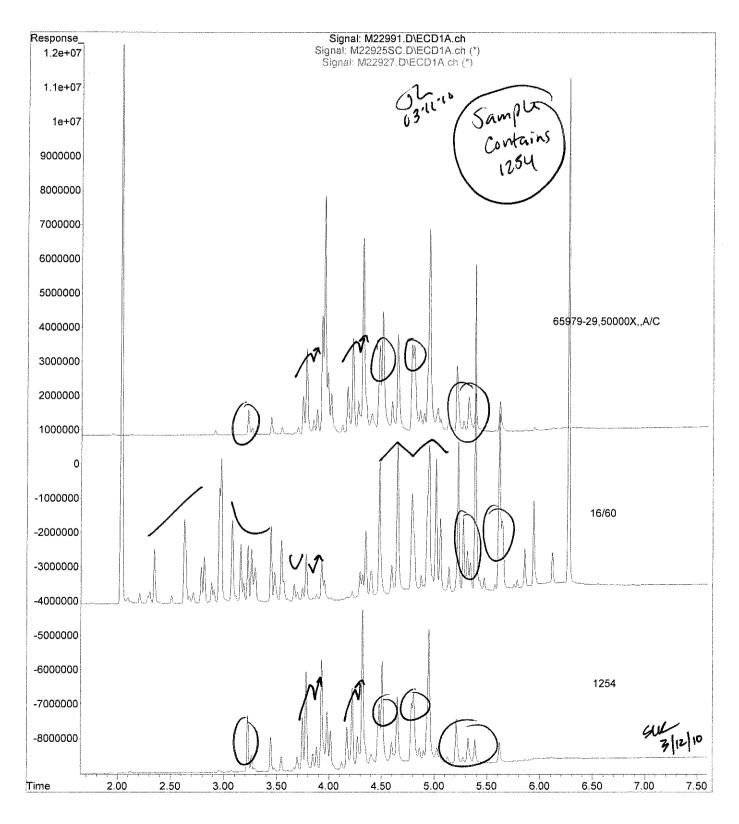
Operator : JK

Acquired : 11 Mar 2010 10:52 am using AcqMethod PCB.M

Instrument : Instrument M

Sample Name: 65979-29,50000X,,A/C

Misc Info : SOIL Vial Number: 7





CLIENT SAMPLE ID

Project Name:

Peabody Terrace

Project Number:

210980

Field Sample ID:

PTB-CBC-11510-0449

March 10, 2010

SAMPLE DATA

Lab Sample ID:

65979-30

Matrix:

Solid

Percent Solid:

97

Dilution Factor:

10

**Collection Date:** 

03/02/10

Lab Receipt Date:

03/03/10

**Extraction Date:** 

03/05/10

Analysis Date:

03/08/10

| PCB ANALYTICA | L RESULTS |
|---------------|-----------|
|---------------|-----------|

| P P P P P P P P P P P P P P P P P P P | COMPOUND | Quantitation<br>Limit µg/kg | Results<br>μg/kg |
|---------------------------------------|----------|-----------------------------|------------------|
|                                       | PCB-1016 | 330                         | U                |
|                                       | PCB-1221 | 330                         | U                |
|                                       | PCB-1232 | 330                         | U                |
| -                                     | PCB-1242 | 330                         | U                |
|                                       | PCB-1248 | 330                         | U                |
|                                       | PCB-1254 | 330                         | 1510             |
|                                       | PCB-1260 | 330                         | U                |
|                                       |          |                             |                  |

### Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene

96

%

Decachlorobiphenyl

79 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

Results are expressed on a dry weight basis.

PCB Report

Authorized signature Mulul

# PCB COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M

SDG: 65979

GC Column #1: STX-CLPesticides I

Sample: 65979-30

Column ID: 0.25 mm

Data File: M22864.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 9.7

Column ID: 0.25 mm

Column #1

Column #2

| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
|----------|-----------------------|-----------------------|-----|---|
| PCB 1254 | 1430                  | 1509                  | 5.4 |   |

- # Column to be used to flag RPD values greater than QC limit of 40%
- \* Values outside QC limits

| Comments: |  |  |
|-----------|--|--|
|           |  |  |

Data Path : C:\msdchem\1\DATA\030810-M\

Data File: M22864.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

8 Mar 2010 5:20 pm Acq On

: JK Operator

: 65979-30 Sample : SOIL Misc

ALS Vial Sample Multiplier: 1 : 27

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 09 15:29:04 2010

Ouant Method: C:\msdchem\1\METHODS\54SP020410.M

Quant Title

QLast Update : Fri Feb 05 08:08:17 2010

Response via : Initial Calibration

Integrator: ChemStation

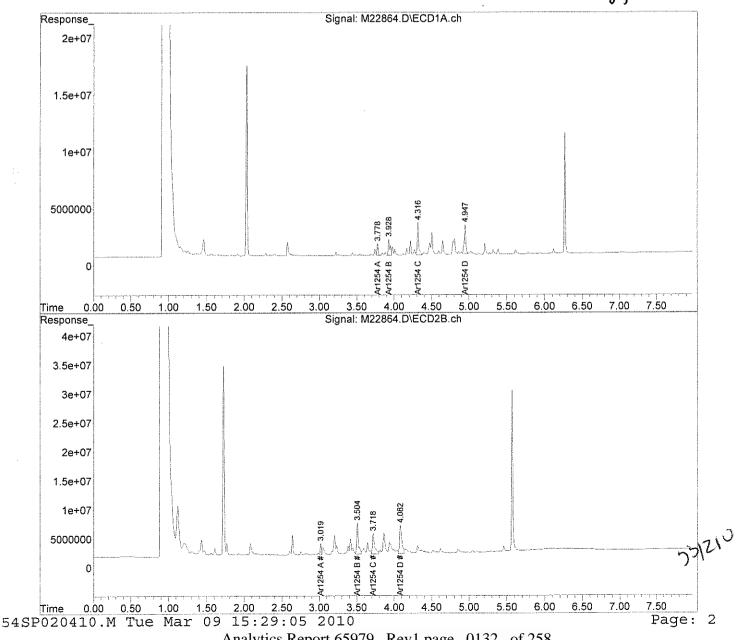
Volume Inj.

Signal #1 Phase : Signal #1 Info

Signal #2 Phase:

Signal #2 Info :

J3.04.12



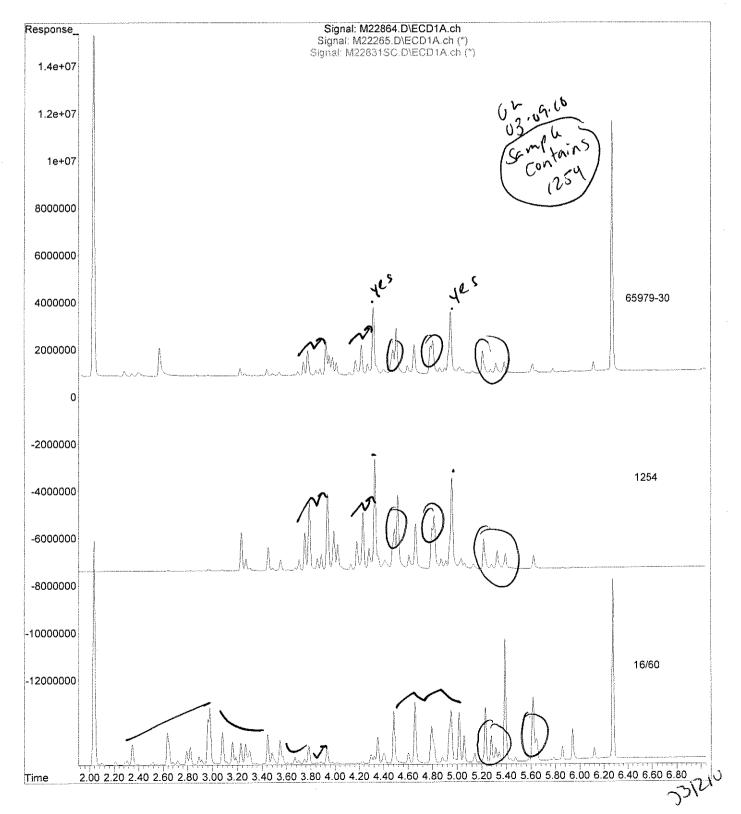
File :C:\msdchem\1\DATA\030810-M\M22864.D

Operator : JK

Acquired: 8 Mar 2010 5:20 pm using AcqMethod PCB.M

Instrument : Instrument M

Sample Name: 65979-30 Misc Info : SOIL Vial Number: 27





#### CLIENT SAMPLE ID

Project Name:

Peabody Terrace

Project Number:

210980

Field Sample ID:

PTB-CBC-11510-0450

March 10, 2010

SAMPLE DATA

Lab Sample ID:

65979-31

Matrix:

Solid

Percent Solid:

97

Dilution Factor:

10

**Collection Date:** 

03/02/10

Lab Receipt Date:

03/03/10

**Extraction Date:** 

03/05/10

**Analysis Date:** 

03/08/10

| PCB ANALYTICAL RESULT |
|-----------------------|
|-----------------------|

| COMPOUND | Quantitation<br>Limit µg/kg | Results<br>μg/kg |
|----------|-----------------------------|------------------|
| PCB-1016 | 330                         | U                |
| PCB-1221 | 330                         | U                |
| PCB-1232 | 330                         | U                |
| PCB-1242 | 330                         | U                |
| PCB-1248 | 330                         | U                |
| PCB-1254 | 330                         | U                |
| PCB-1260 | 330                         | U                |
|          |                             |                  |

### Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene

96 %

Decachlorobiphenyl

79 %

J=Estimated E=Exceeds Calibration Range B=Detected in U=Undetected

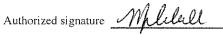
METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

Results are expressed on a dry weight basis.

PCB Report



Data Path : C:\msdchem\1\DATA\030810-M\

Data File: M22865.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On 8 Mar 2010 5:30 pm

Operator : JK

: 65979-31 Sample Misc : SOIL

ALS Vial Sample Multiplier: 1 : 28

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 09 15:36:06 2010

Quant Method: C:\msdchem\1\METHODS\PCB020410.M

Quant Title : Aroclor 1016/1260

QLast Update: Thu Feb 04 11:18:55 2010

Response via : Initial Calibration

Integrator: ChemStation

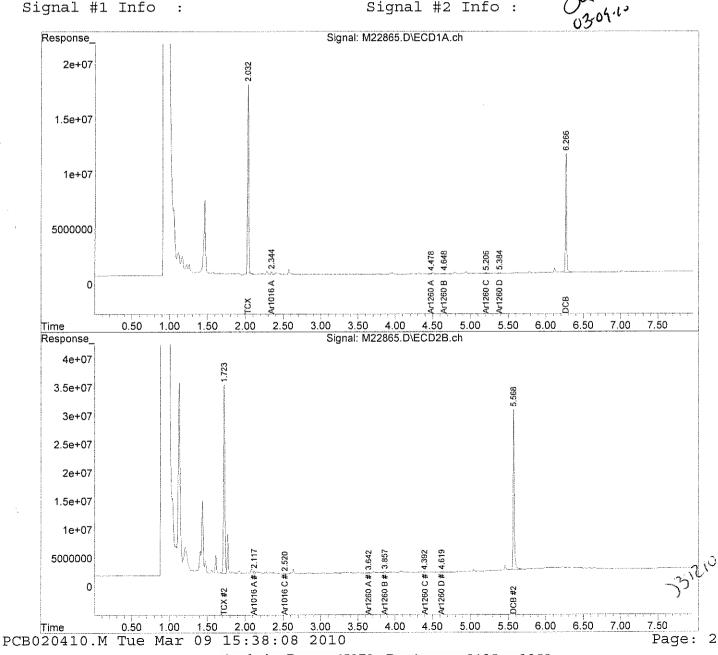
Volume Inj.

Signal #1 Phase :

Signal #2 Phase:

Signal #2 Info :

0204.13





CLIENT SAMPLE ID

Project Name:

Peabody Terrace

Project Number:

210980

Field Sample ID:

PTB-CBK-11510-0451

March 12, 2010

SAMPLE DATA

Lab Sample ID:

65979-32

Matrix:

Solid

Percent Solid:

100

Dilution Factor:

351

Collection Date:

03/02/10

Lab Receipt Date:

03/03/10

**Extraction Date:** 

03/04/10

Analysis Date:

03/09/10

| PCB ANALYTICAL RESULTS |                                         |                  |  |
|------------------------|-----------------------------------------|------------------|--|
| COMPOUND               | Quantitation<br>Limit μg/kg             | Results<br>μg/kg |  |
| PCB-1016               | 11600                                   | U                |  |
| PCB-1221               | 11600                                   | U                |  |
| PCB-1232               | 11600                                   | U                |  |
| PCB-1242               | 11600                                   | U                |  |
| PCB-1248               | 11600                                   | U                |  |
| PCB-1254               | 11600                                   | 195000           |  |
| PCB-1260               | 11600                                   | U                |  |
|                        |                                         |                  |  |
|                        |                                         |                  |  |
|                        | Surrogate Standard Recovery             |                  |  |
|                        | 2,4,5,6-Tetrachloro-m-xylene * %        |                  |  |
|                        | Decachlorobiphenyl *                    | %                |  |
| U=Undetected           | J=Estimated E=Exceeds Calibration Range | B=Detected in    |  |

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

Results are expressed on a dry weight basis.

\* The surrogates were diluted out.

PCB Report

Authorized signature Mulull

## PCB COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M SDG: 65979

GC Column #1: STX-CLPesticides I Sample: 65979-32,50X,,A/C

Column ID: 0.25 mm Data File: M22938.D

GC Column #2: STX-CLPesticides II Dilution Factor: 351.1

Column ID: 0.25 mm

Column #1 Column #2

| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD  | # |
|----------|-----------------------|-----------------------|------|---|
| PCB 1254 | 195261                | 171494                | 13.0 |   |

- # Column to be used to flag RPD values greater than QC limit of 40%
- \* Values outside QC limits

| Comments: |  |
|-----------|--|
|           |  |

Data Path : C:\msdchem\1\DATA\030910-M\

Data File: M22938.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 9 Mar 2010 6:38 pm

Operator : JK

Sample : 65979-32,50X,,A/C

Misc : SOIL

ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e

Quant Time: Mar 10 13:10:06 2010

Quant Method : C:\msdchem\1\METHODS\54SP020410.M

🖖 🖟 Quant Title 📑

QLast Update : Fri Feb 05 08:08:17 2010

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. :

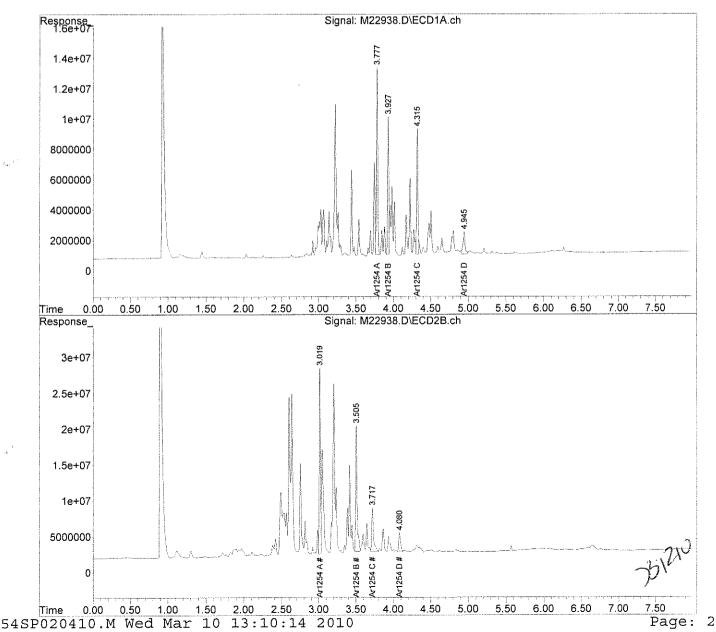
Signal #1 Phase :

Signal #1 Info :

Signal #2 Phase:

Signal #2 Info :

Ja. (3.(3)



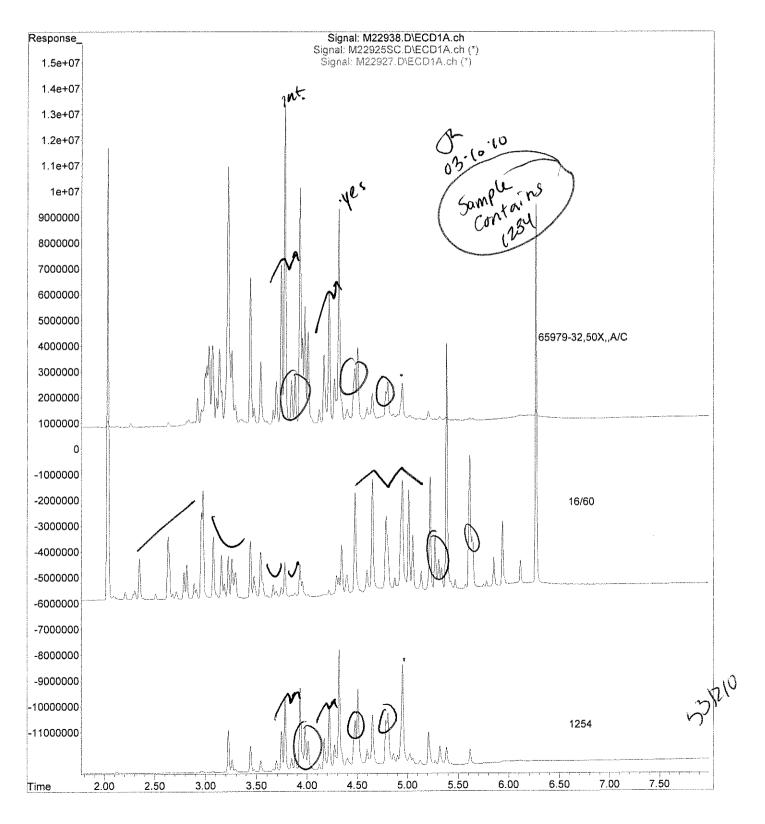
File :C:\msdchem\1\DATA\030910-M\M22938.D

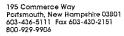
Operator : JK

Acquired: 9 Mar 2010 6:38 pm using AcqMethod PCB.M

Instrument : Instrument M
Sample Name: 65979-32,50X,,A/C

Misc Info : SOIL Vial Number: 17







CLIENT SAMPLE ID

Project Name:

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

PTB-CBK-11510-0452

March 12, 2010

SAMPLE DATA

Lab Sample ID:

65979-33

Matrix:

Solid

Percent Solid:

99

**Dilution Factor:** 

385

**Collection Date:** 

03/02/10

Lab Receipt Date:

03/03/10

**Extraction Date:** 

03/04/10

**Analysis Date:** 

03/09/10

| PCB | ANAL | YTIC | AL R | RESUL | TS |
|-----|------|------|------|-------|----|
|     |      |      |      |       |    |

| COMPOUND | Quantitation<br>Limit µg/kg | Results<br>μg/kg |
|----------|-----------------------------|------------------|
| PCB-1016 | 12700                       | U                |
| PCB-1221 | 12700                       | U                |
| PCB-1232 | 12700                       | U                |
| PCB-1242 | 12700                       | U                |
| PCB-1248 | 12700                       | U                |
| PCB-1254 | 12700                       | 171000           |
| PCB-1260 | 12700                       | U                |
|          |                             |                  |

#### Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene

%

Decachlorobiphenyl

%

J=Estimated E=Exceeds Calibration Range U=Undetected

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

Results are expressed on a dry weight basis.

\* The surrogates were diluted out.

PCB Report

Authorized signature Wyllell

## PCB COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M

SDG: 65979

GC Column #1: STX-CLPesticides I

Sample: 65979-33,50X,,A/C

Column ID: 0.25 mm

Data File: M22939.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 384.9

Column ID: 0.25 mm

Column #1

Column #2

| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD  | # |
|----------|-----------------------|-----------------------|------|---|
| PCB 1254 | 170925                | 153532                | 10.7 |   |

# Column to be used to flag RPD values greater than QC limit of 40%

\* Values outside QC limits

| Comments: |  |
|-----------|--|
|           |  |

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\030910-M\

Data File: M22939.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

9 Mar 2010 Acq On 6:48 pm

Operator : JK

: 65979-33,50X,,A/C Sample

Misc : SOIL

ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 10 12:08:22 2010

Quant Method: C:\msdchem\1\METHODS\54SP020410.M

Quant Title

QLast Update : Fri Feb 05 08:08:17 2010

Response via : Initial Calibration

Integrator: ChemStation

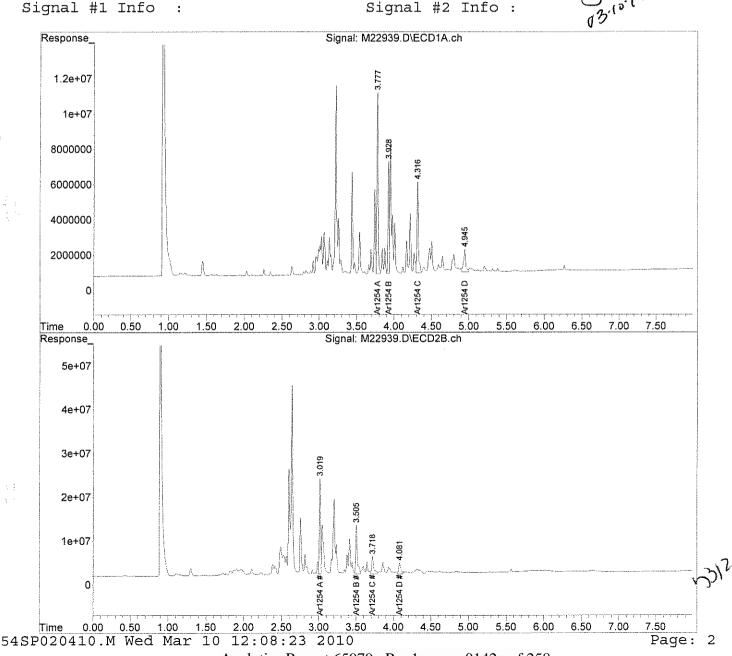
Volume Inj.

Signal #1 Phase :

Signal #2 Phase:

Signal #2 Info :

13.10.13



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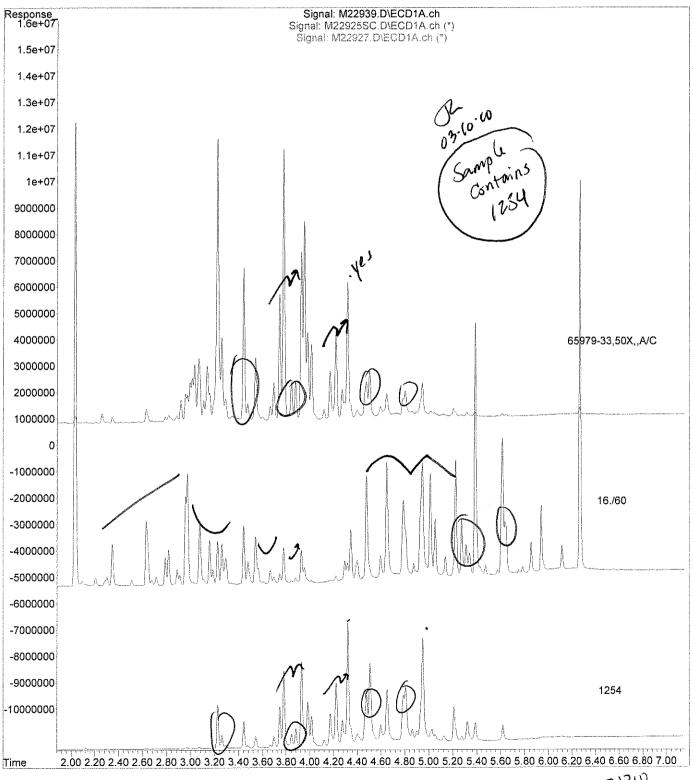
File :C:\msdchem\1\DATA\030910-M\M22939.D

Operator : JK

Acquired: 9 Mar 2010 6:48 pm using AcqMethod PCB.M

Instrument : Instrument M
Sample Name: 65979-33,50X,,A/C

Misc Info : SOIL Vial Number: 18





CLIENT SAMPLE ID

**Project Name:** 

Peabody Terrace

Project Number:

210980

Field Sample ID:

PTB-CWK-11510-0453

March 11, 2010 SAMPLE DATA

Lab Sample ID:

65979-34 RR

Matrix:

Wipe

Percent Solid: Dilution Factor: N/A

1.0

**Collection Date:** 

03/02/10

Lab Receipt Date: Extraction Date:

03/03/10 03/04/10

Analysis Date:

03/09/10

| PCB ANALYTICAL RESULTS                                             |                                 |                    |  |  |
|--------------------------------------------------------------------|---------------------------------|--------------------|--|--|
| COMPOUND                                                           | Quantitation<br>Limit μg/wipe   | Results<br>μg/wipe |  |  |
| PCB-1016                                                           | 0.5                             | U                  |  |  |
| PCB-1221                                                           | 0.5                             | U                  |  |  |
| PCB-1232                                                           | 0.5                             | U                  |  |  |
| PCB-1242                                                           | 0.5                             | U                  |  |  |
| PCB-1248                                                           | 0.5                             | U                  |  |  |
| PCB-1254                                                           | 0.5                             | 4.8                |  |  |
| PCB-1260                                                           | 0.5                             | U                  |  |  |
|                                                                    |                                 |                    |  |  |
|                                                                    |                                 |                    |  |  |
| Surrogate Standard Recovery                                        |                                 |                    |  |  |
|                                                                    | 2,4,5,6-Tetrachloro-m-xylene 94 | %                  |  |  |
|                                                                    | Decachlorobiphenyl 82           | %                  |  |  |
| U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in |                                 |                    |  |  |

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report

Authorized signature Multill

## PCB COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M

SDG: 65979

GC Column #1: STX-CLPesticides I

Sample: 65979-34,RR,,A/C

Column ID: 0.25 mm

Data File: M22934.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 1.0

Column ID: 0.25 mm

Column #1

Column #2

| COMPOUND | SAMPLE RESULT (ug/wipe) | SAMPLE RESULT (ug/wipe) | RPD    | # |
|----------|-------------------------|-------------------------|--------|---|
| PCB 1254 | 4.8                     | 3.9                     | . 19.1 |   |

- # Column to be used to flag RPD values greater than QC limit of 40%
- \* Values outside QC limits

| Comments: |  |  |
|-----------|--|--|

Data Path : C:\msdchem\1\DATA\030910-M\

Data File: M22934.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

9 Mar 2010 5:58 pm Acq On

Operator : JK

Sample : 65979-34,RR,,A/C

: SOIL Misc

ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 10 12:51:00 2010

Quant Method: C:\msdchem\1\METHODS\54SP020410.M

Quant Title

QLast Update : Fri Feb 05 08:08:17 2010

Response via : Initial Calibration

Integrator: ChemStation

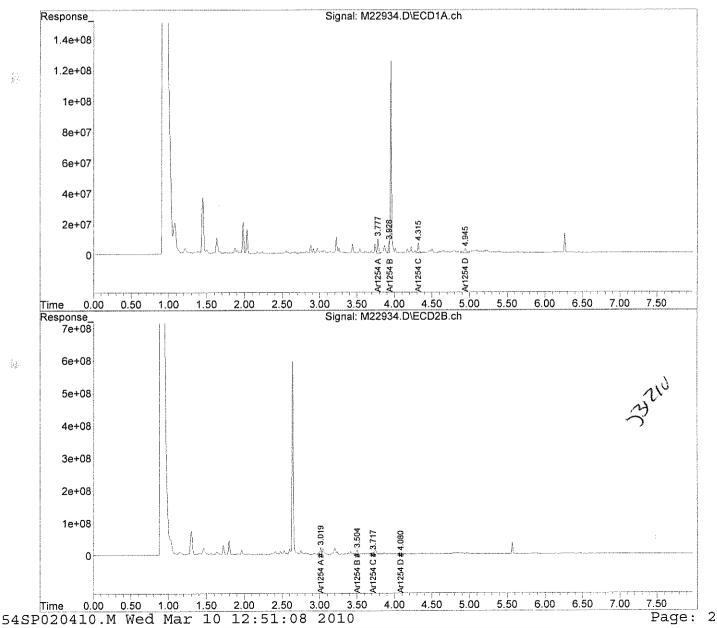
Volume Inj.

Signal #1 Phase : Signal #1 Info

£1.

Signal #2 Phase:

Signal #2 Info :



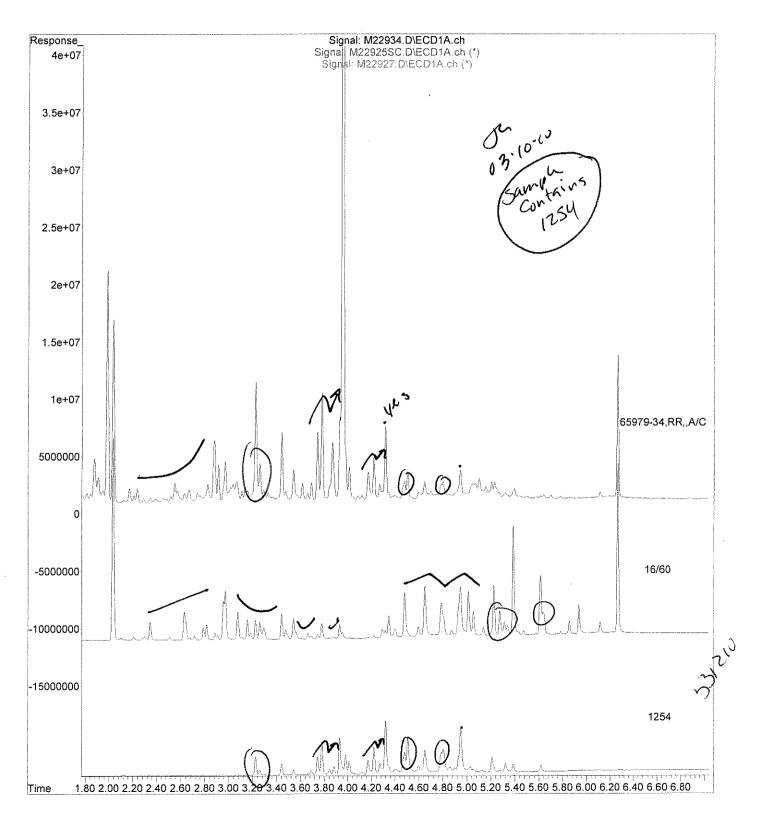
File :C:\msdchem\1\DATA\030910-M\M22934.D

Operator : JK

Acquired : 9 Mar 2010 5:58 pm using AcqMethod PCB.M

Instrument : Instrument M
Sample Name: 65979-34,RR,,A/C

Misc Info : SOIL Vial Number: 13





CLIENT SAMPLE ID

Project Name:

Peabody Terrace

Project Number:

210980

Field Sample ID:

PTB-CWK-11510-0454

March 11, 2010

SAMPLE DATA

**Lab Sample ID:** 65979-35 RR

Matrix:

Wipe

Percent Solid:

N/A

Dilution Factor:

1.0

Collection Date:

03/02/10

Lab Receipt Date:

03/03/10

Extraction Date:

03/04/10

Analysis Date:

03/09/10

| PCB ANALYTICAL RESULTS      |                                                       |                    |  |
|-----------------------------|-------------------------------------------------------|--------------------|--|
| COMPOUND                    | Quantitation<br>Limit $\mu$ g/wipe                    | Results<br>μg/wipe |  |
| PCB-1016                    | 0.5                                                   | U                  |  |
| PCB-1221                    | 0.5                                                   | U                  |  |
| PCB-1232                    | 0.5                                                   | U                  |  |
| PCB-1242                    | 0.5                                                   | U                  |  |
| PCB-1248                    | 0.5                                                   | U                  |  |
| PCB-1254                    | 0.5                                                   | U                  |  |
| PCB-1260                    | 0.5                                                   | U                  |  |
|                             |                                                       |                    |  |
|                             |                                                       |                    |  |
| Surrogate Standard Recovery |                                                       |                    |  |
|                             | 2,4,5,6-Tetrachloro-m-xylene 93 Decachlorobiphenyl 84 | %<br>%             |  |
| U=Undetected J=F            | Estimated E=Exceeds Calibration Range                 | B=Detected in      |  |

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report

Authorized signature Mullill

#### Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\030910-M\

Data File: M22935.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Aca On 9 Mar 2010 6:08 pm

Operator : JK

Sample : 65979-35,RR,,A/C

SOIL Misc

Sample Multiplier: 1 ALS Vial 14

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 10 12:04:54 2010

Quant Method: C:\msdchem\1\METHODS\PCB020410.M

Quant Title : Aroclor 1016/1260

QLast Update: Thu Feb 04 11:18:55 2010 Response via: Initial Calibration

Integrator: ChemStation

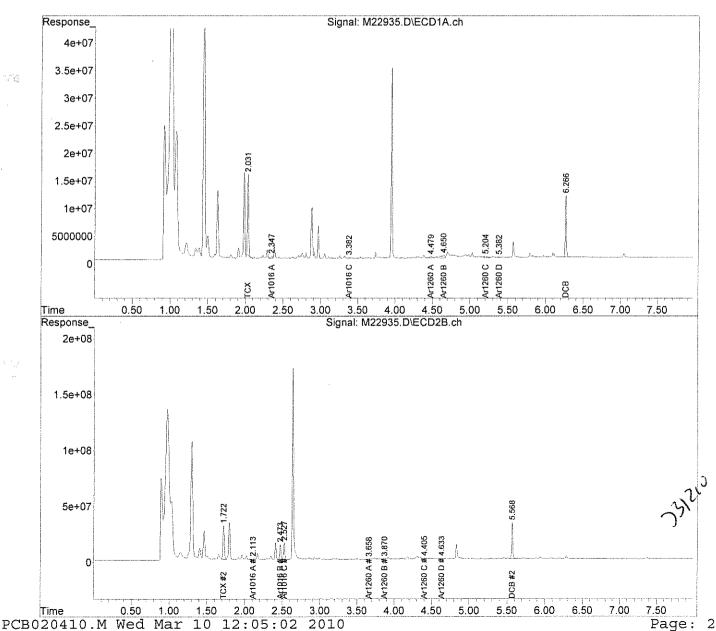
Volume Inj.

Signal #1 Phase :

Signal #1 Info

Signal #2 Phase:

Signal #2 Info :





CLIENT SAMPLE ID

**Project Name:** 

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

PTB-CWK-11510-0455

March 11, 2010 SAMPLE DATA

Lab Sample ID:

65979-36 RR

Matrix:

Wipe

Percent Solid:

N/A

Dilution Factor:

1.0

Collection Date:

03/02/10

Lab Receipt Date:

03/02/10

Extraction Date:

03/04/10

Analysis Date:

03/09/10

|              | PCB ANALYTICAL RESUL                                   | TS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------|--------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| COMPOUND     | Quantitation<br>Limit μg/wipe                          | Results<br>μg/wipe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| PCB-1016     | 0.5                                                    | U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| PCB-1221     | 0.5                                                    | U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| PCB-1232     | 0.5                                                    | U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| PCB-1242     | 0.5                                                    | U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| PCB-1248     | 0.5                                                    | U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| PCB-1254     | 0.5                                                    | 5.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| PCB-1260     | 0.5                                                    | U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|              |                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|              | Surrogate Standard Recovery                            | A CONTRACT OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE |
|              |                                                        | %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| !            | 2,4,5,6-Tetrachloro-m-xylene 101 Decachlorobiphenyl 85 | %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| U=Undetected | J=Estimated E=Exceeds Calibration Range                | B=Detected in                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report

Authorized signature Mullill

# PCB COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M

SDG: 65979

GC Column #1: STX-CLPesticides I

Sample: 65979-36,RR,,A/C

Column ID: 0.25 mm

Data File: M22936.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 1.0

Column ID: 0.25 mm

Column #1

Column #2

| COMPOUND | SAMPLE RESULT (ug/wipe) | SAMPLE RESULT (ug/wipe) | RPD  | # |
|----------|-------------------------|-------------------------|------|---|
| PCB 1254 | 5.6                     | 4.5                     | 22.7 |   |

- # Column to be used to flag RPD values greater than QC limit of 40%
- \* Values outside QC limits

| Comments: |
|-----------|
|-----------|

Data Path : C:\msdchem\1\DATA\030910-M\

Data File: M22936.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 9 Mar 2010 6:18 pm

Operator : JK

Sample : 65979-36, RR, , A/C

Misc : SOIL

ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 10 13:02:20 2010

Quant Method : C:\msdchem\1\METHODS\54SP020410.M

Quant Title

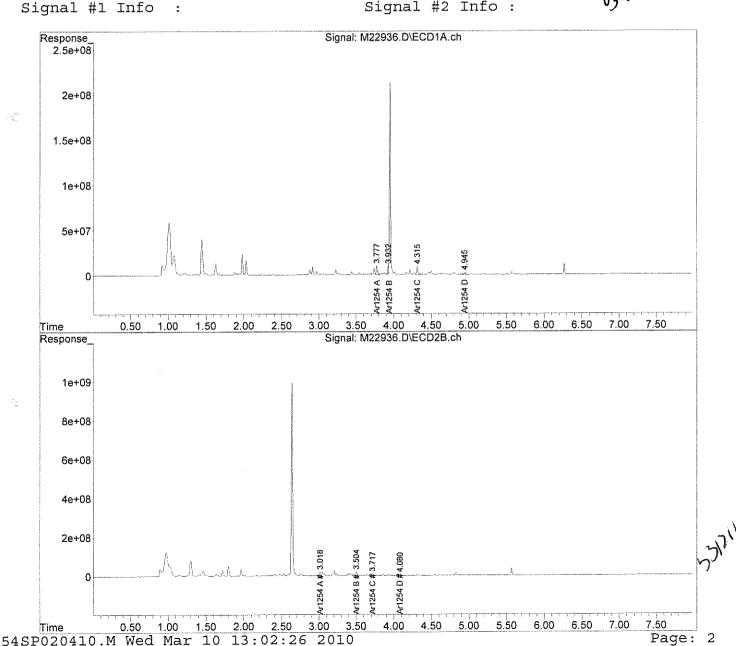
QLast Update : Fri Feb 05 08:08:17 2010

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : Signal #1 Phase :

Signal #2 Phase: Signal #2 Info: 03.10.10



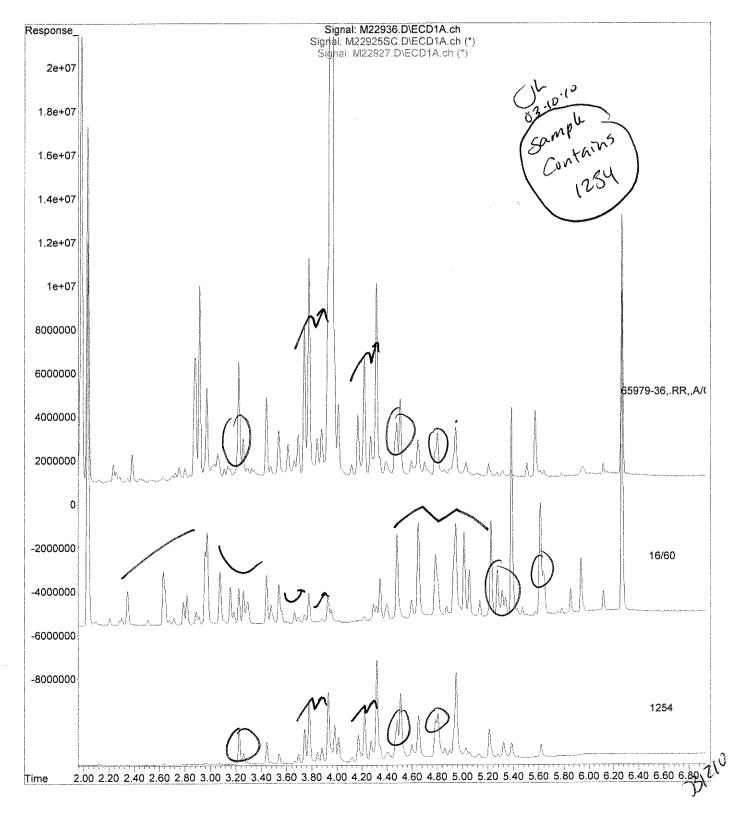
File :C:\msdchem\1\DATA\030910-M\M22936.D

Operator : JK

Acquired : 9 Mar 2010 6:18 pm using AcqMethod PCB.M

Instrument : Instrument M
Sample Name: 65979-36,RR,,A/C

Misc Info : SOIL Vial Number: 15





CLIENT SAMPLE ID

Project Name:

Peabody Terrace

Project Number:

210980

Field Sample ID:

PTB-CWK-11510-0456

March 11, 2010

SAMPLE DATA

Lab Sample ID:

65979-37 RR

Matrix:

Wipe

Percent Solid:

N/A

**Dilution Factor:** 

1.0

Collection Date:

03/02/10

Lab Receipt Date:

03/03/10

**Extraction Date:** 

03/04/10

**Analysis Date:** 

03/09/10

|              | PCB ANALYTICAL RESUL                                  | TS                            |
|--------------|-------------------------------------------------------|-------------------------------|
| COMPOUND     | Quantitation<br>Limit $\mu$ g/wipe                    | Results $\mu \mathrm{g/wipe}$ |
| PCB-1016     | 0.5                                                   | U                             |
| PCB-1221     | 0.5                                                   | U                             |
| PCB-1232     | 0.5                                                   | Ŭ                             |
| PCB-1242     | 0.5                                                   | U                             |
| PCB-1248     | 0.5                                                   | U                             |
| PCB-1254     | 0.5                                                   | U                             |
| PCB-1260     | 0.5                                                   | U                             |
|              |                                                       |                               |
|              |                                                       |                               |
|              | Surrogate Standard Recovery                           |                               |
|              | 2,4,5,6-Tetrachloro-m-xylene 97 Decachlorobiphenyl 81 | %<br>%                        |
| U=Undetected | J=Estimated E=Exceeds Calibration Range               | B=Detected in                 |

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report



Data Path : C:\msdchem\1\DATA\030910-M\

Data File: M22943.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

9 Mar 2010 Acq On 7:29 pm

: JK Operator

: 65979-37,RR,,A/C Sample

: SOIL Misc

Sample Multiplier: 1 ALS Vial : 19

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 10 13:59:39 2010

Quant Method: C:\msdchem\1\METHODS\PCB020410.M

Quant Title : Aroclor 1016/1260

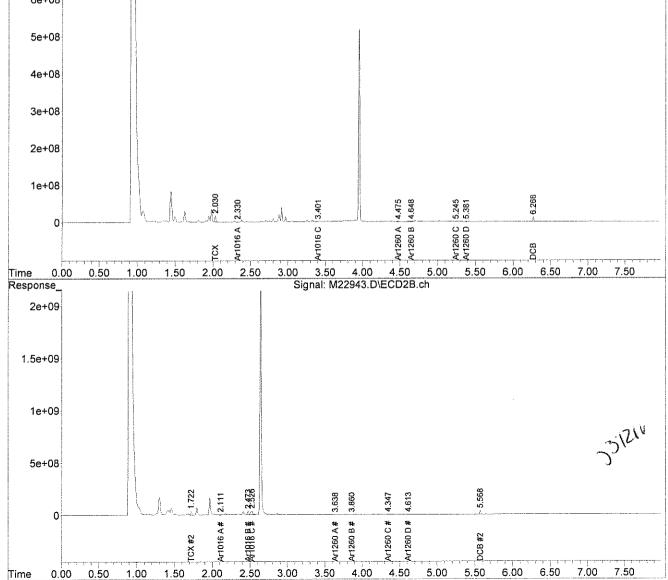
QLast Update: Thu Feb 04 11:18:55 2010 Response via: Initial Calibration

Integrator: ChemStation

Volume Inj. Signal #1 Phase :

Signal #2 Phase:

Signal #2 Info : Signal #1 Info Signal: M22943.D\ECD1A.ch Response 6e+08





**CLIENT SAMPLE ID** 

Project Name:

Peabody Terrace

Project Number:

210980

Field Sample ID:

PTB-CWW-11510-0457

March 11, 2010

SAMPLE DATA

Lab Sample ID:

65979-38 RR

Matrix:

Wipe

Percent Solid:

N/A

**Dilution Factor:** 

1.0

Collection Date:

03/02/10

Lab Receipt Date:

03/03/10

**Extraction Date:** 

03/04/10

Analysis Date:

03/09/10

| PCB ANALYTICAL RESULTS | PCB A | ANALY | TICAL | RESULTS |
|------------------------|-------|-------|-------|---------|
|------------------------|-------|-------|-------|---------|

| COMPOUND | Quantitation Limit $\mu$ g/wipe | Results<br>μg/wipe |
|----------|---------------------------------|--------------------|
| PCB-1016 | 0.5                             | U                  |
| PCB-1221 | 0.5                             | U                  |
| PCB-1232 | 0.5                             | U                  |
| PCB-1242 | 0.5                             | U                  |
| PCB-1248 | 0.5                             | U                  |
| PCB-1254 | 0.5                             | 2.0                |
| PCB-1260 | 0.5                             | U                  |
|          |                                 |                    |

### Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene

% 96

Decachlorobiphenyl

80 %

J=Estimated E=Exceeds Calibration Range B=Detected in U=Undetected

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report

# PCB COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M

SDG: 65979

GC Column #1: STX-CLPesticides I

Sample: 65979-38,RR,,A/C

Column ID: 0.25 mm

Data File: M22944.D

GC Column #2; STX-CLPesticides II

Dilution Factor: 1.0

Column ID: 0.25 mm

Column #1

Column #2

| COMPOUND | SAMPLE RESULT (ug/wipe) | SAMPLE RESULT (ug/wipe) | RPD  | # |
|----------|-------------------------|-------------------------|------|---|
| PCB 1254 | 2.0                     | 1.4                     | 31.0 |   |

- # Column to be used to flag RPD values greater than QC limit of 40%
- \* Values outside QC limits

| Comments: |  |
|-----------|--|
|           |  |

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\030910-M\

Data File: M22944.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 9 Mar 2010 7:39 pm

Operator : JK

Sample : 65979-38, RR, , A/C

Misc : SOIL

ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 10 14:20:59 2010

Quant Method : C:\msdchem\1\METHODS\54SP020410.M

Quant Title :

QLast Update : Fri Feb 05 08:08:17 2010

Response via : Initial Calibration

Integrator: ChemStation

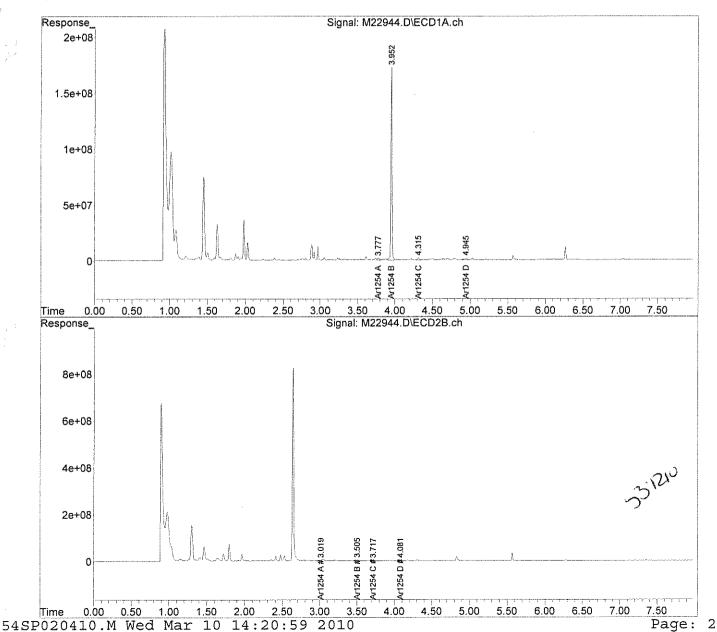
Volume Inj. :

Signal #1 Phase : Signal #1 Info :

Signal #2 Phase:

Signal #2 Info:

13-10-17



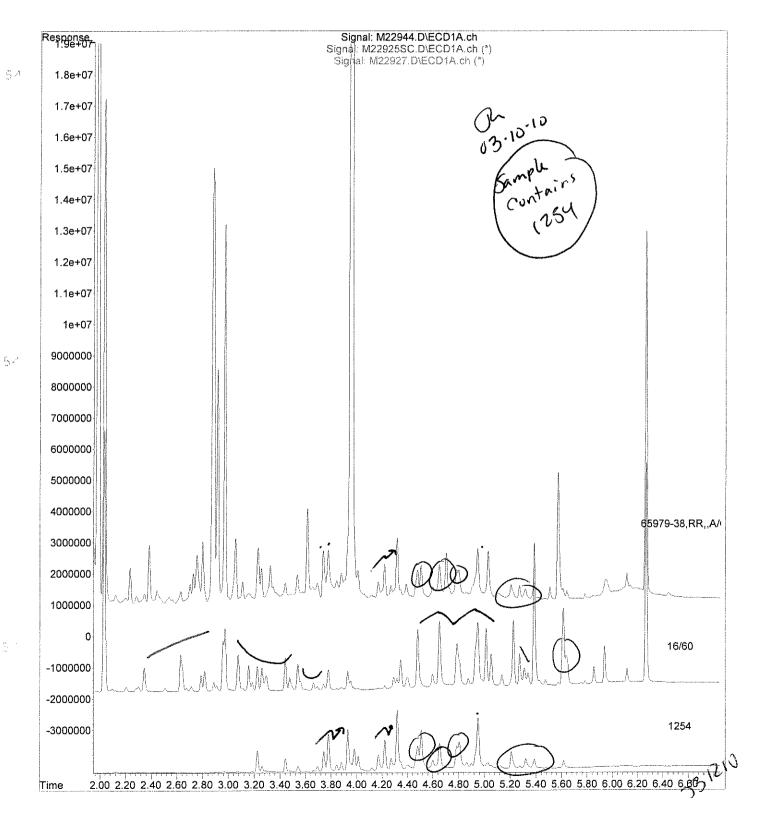
File :C:\msdchem\1\DATA\030910-M\M22944.D

Operator : JK

Acquired: 9 Mar 2010 7:39 pm using AcqMethod PCB.M

Instrument : Instrument M
Sample Name: 65979-38,RR,,A/C

Misc Info : SOIL Vial Number: 20





CLIENT SAMPLE ID

**Project Name:** 

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

PTB-CWW-11510-0458

March 11, 2010 SAMPLE DATA

Lab Sample ID:

65979-39 RR

Matrix:

Wipe

Percent Solid:

N/A

Dilution Factor:

1.0

**Collection Date:** 

03/02/10

Lab Receipt Date:

03/03/10

**Extraction Date:** 

03/04/10

Analysis Date:

03/09/10

|                  | PCB ANALYTICAL RESUL                                  | TS                 |
|------------------|-------------------------------------------------------|--------------------|
| COMPOUND         | Quantitation<br>Limit $\mu$ g/wipe                    | Results<br>μg/wipe |
| PCB-1016         | 0.5                                                   | U                  |
| PCB-1221         | 0.5                                                   | U                  |
| PCB-1232         | 0.5                                                   | U                  |
| PCB-1242         | 0.5                                                   | U                  |
| PCB-1248         | 0.5                                                   | U                  |
| PCB-1254         | 0.5                                                   | 3.2                |
| PCB-1260         | 0.5                                                   | U                  |
|                  |                                                       |                    |
|                  |                                                       |                    |
|                  | Surrogate Standard Recovery                           |                    |
|                  | 2,4,5,6-Tetrachloro-m-xylene 95 Decachlorobiphenyl 80 | %<br>%             |
| U=Undetected J=F | Estimated E=Exceeds Calibration Range                 | B=Detected in      |

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report

Authorized signature Whilell

### PCB COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M

SDG: 65979

GC Column #1: STX-CLPesticides I

Sample: 65979-39,RR,,A/C

Column ID: 0.25 mm

Data File: M22945.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 1.0

Column ID: 0.25 mm

Column #1

Column #2

| COMPOUND | SAMPLE RESULT (ug/wipe) | SAMPLE RESULT (ug/wipe) | RPD  | # |
|----------|-------------------------|-------------------------|------|---|
| PCB 1254 | 2.9                     | 3.2                     | 10.8 |   |

- # Column to be used to flag RPD values greater than QC limit of 40%
- \* Values outside QC limits

| Comments: |  |
|-----------|--|
|           |  |

Data Path : C:\msdchem\1\DATA\030910-M\

Data File: M22945.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

9 Mar 2010 7:49 pm Acq On

Operator : JK

: 65979-39,RR,,A/C Sample

Misc : SOIL

Sample Multiplier: 1 ALS Vial : 21

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 10 14:31:33 2010

Quant Method: C:\msdchem\1\METHODS\54SP020410.M

Quant Title

QLast Update : Fri Feb 05 08:08:17 2010

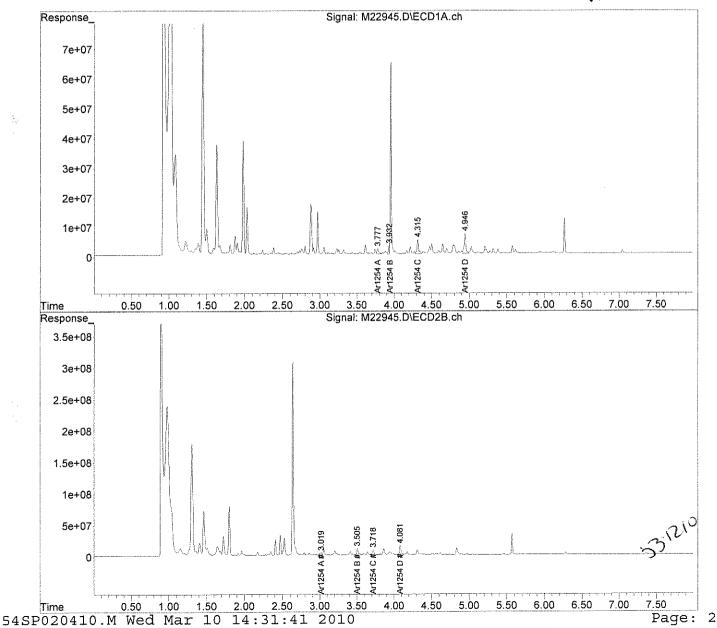
Response via: Initial Calibration

Integrator: ChemStation

Volume Inj. Signal #1 Phase :

Signal #2 Phase: Signal #1 Info

Signal #2 Info :



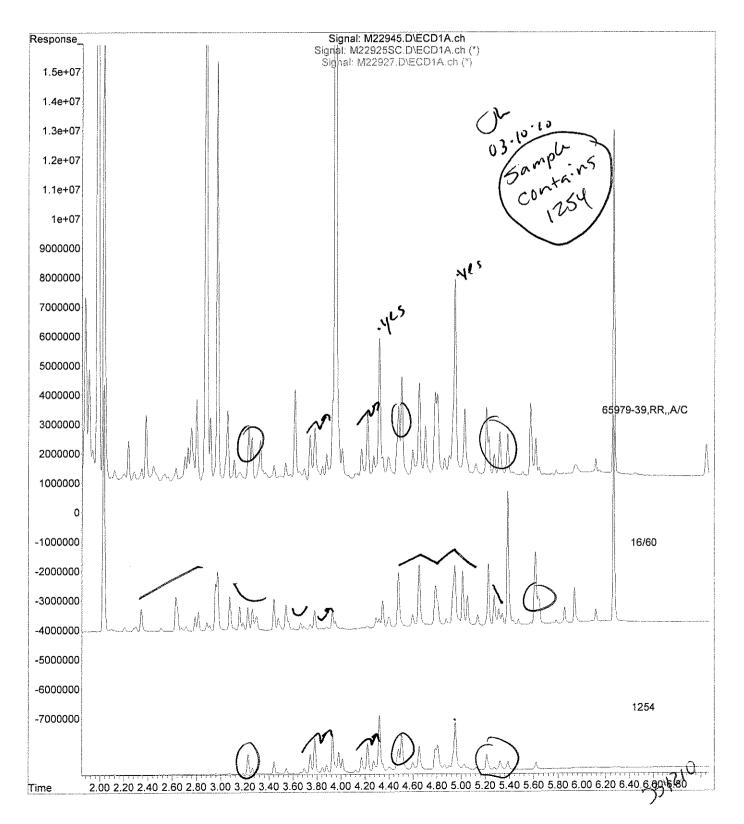
File :C:\msdchem\1\DATA\030910-M\M22945.D

Operator : JK

Acquired : 9 Mar 2010 7:49 pm using AcqMethod PCB.M

Instrument : Instrument M
Sample Name: 65979-39,RR,,A/C

Misc Info : SOIL Vial Number: 21





**CLIENT SAMPLE ID** 

**Project Name:** 

Peabody Terrace

Project Number:

210980

Field Sample ID:

PTB-CWT-11510-0459

March 11, 2010

SAMPLE DATA

Lab Sample ID:

65979-40 RR

Matrix:

Wipe

Percent Solid:

N/A

**Dilution Factor:** 

1.0

**Collection Date:** 

03/02/10

Lab Receipt Date:

03/03/10

**Extraction Date:** 

03/04/10

Analysis Date:

03/09/10

|                 | PCB ANALYTICAL RESU                                    | ULTS               |
|-----------------|--------------------------------------------------------|--------------------|
| COMPOUND        | Quantitation<br>Limit μg/wipe                          | Results<br>μg/wipe |
| PCB-1016        | 0.5                                                    | U                  |
| PCB-1221        | 0.5                                                    | U                  |
| PCB-1232        | 0.5                                                    | U                  |
| PCB-1242        | 0.5                                                    | U                  |
| PCB-1248        | 0.5                                                    | U                  |
| PCB-1254        | 0.5                                                    | U                  |
| PCB-1260        | 0.5                                                    | U                  |
|                 |                                                        |                    |
|                 | Surrogate Standard Recovery                            |                    |
|                 | 2,4,5,6-Tetrachloro-m-xylene 103 Decachlorobiphenyl 79 | %                  |
| I II Indetected | J=Estimated E=Exceeds Calibration Rang                 | re R-Detected in   |

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report

Authorized signature Myllull

Data Path : C:\msdchem\1\DATA\030910-M\

Data File: M22946.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 9 Mar 2010 7:59 pm

Operator : JK

Sample : 65979-40,RR,,A/C

Misc : SOIL

ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 10 14:01:17 2010

Quant Method : C:\msdchem\1\METHODS\PCB020410.M

Quant Title : Aroclor 1016/1260

QLast Update : Thu Feb 04 11:18:55 2010

Response via : Initial Calibration

Integrator: ChemStation

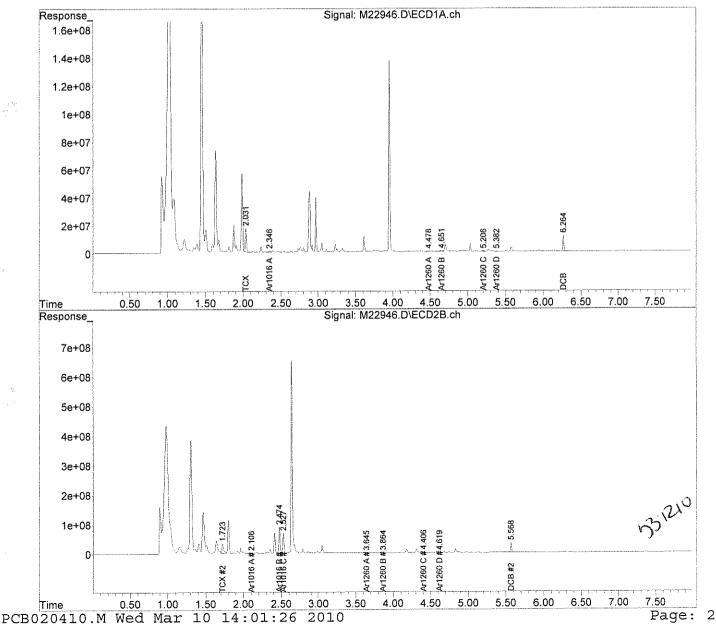
Volume Inj. : Signal #1 Phase :

Signal #1 Phase : Signal #1 Info :

Signal #2 Phase:

Signal #2 Info :

Or 13.18





CLIENT SAMPLE ID

Project Name:

Peabody Terrace

Project Number:

210980

Field Sample ID:

PTB-CWT-11510-0460

March 11, 2010 SAMPLE DATA

Lab Sample ID:

65979-41 RR

Matrix:

Wipe

Percent Solid: Dilution Factor: N/A 1.0

**Collection Date:** 

03/02/10

Lab Receipt Date: **Extraction Date:** 

03/03/10 03/04/10

**Analysis Date:** 

03/09/10

| PCB ANALYTICAL RESULTS |                                         |                            |
|------------------------|-----------------------------------------|----------------------------|
| COMPOUND               | Quantitation<br>Limit $\mu$ g/wipe      | Results $\mu g/	ext{wipe}$ |
| PCB-1016               | 0.5                                     | U                          |
| PCB-1221               | 0.5                                     | U                          |
| PCB-1232               | 0.5                                     | U                          |
| PCB-1242               | 0.5                                     | U                          |
| PCB-1248               | 0.5                                     | U                          |
| PCB-1254               | 0.5                                     | 2.7                        |
| PCB-1260               | 0.5                                     | U                          |
|                        |                                         |                            |
|                        |                                         |                            |
|                        | Surrogate Standard Recovery             |                            |
|                        | 2,45,6-Tetrachloro-m-xylene 100         | %                          |
|                        | Decachlorobiphenyl 76                   | %                          |
| U=Undetected           | J=Estimated E=Exceeds Calibration Range | B=Detected in              |

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report

Authorized signature Mulull

# PCB COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M SDG: 65979

GC Column #1: STX-CLPesticides I Sample: 65979-41,RR,,A/C

Column ID: 0.25 mm Data File: M22947.D

GC Column #2: STX-CLPesticides II Dilution Factor: 1.0

Column ID: 0.25 mm

Column #1 Column #2

| COMPOUND | SAMPLE RESULT (ug/wipe) | SAMPLE RESULT (ug/wipe) | RPD  | # |
|----------|-------------------------|-------------------------|------|---|
| PCB 1254 | 2.7                     | 1.8                     | 37.2 |   |

- # Column to be used to flag RPD values greater than QC limit of 40%
- \* Values outside QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\030910-M\

Data File: M22947.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acg On : 9 Mar 2010 8:09 pm

Operator : JK

Sample : 65979-41,RR,,A/C

Misc : SOIL

ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 10 14:44:24 2010

Quant Method : C:\msdchem\1\METHODS\54SP020410.M

Quant Title :

QLast Update : Fri Feb 05 08:08:17 2010

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

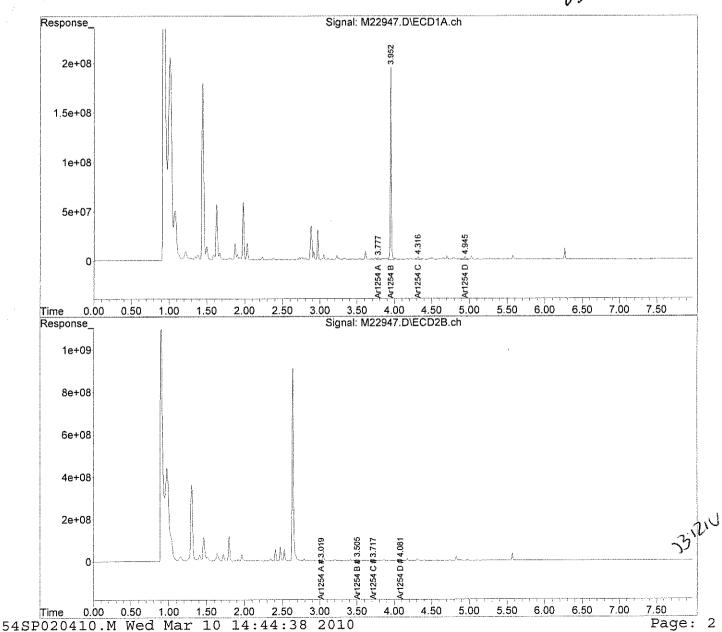
Signal #1 Phase :

Signal #1 Info

Signal #2 Phase:

Signal #2 Info :

B.10.10



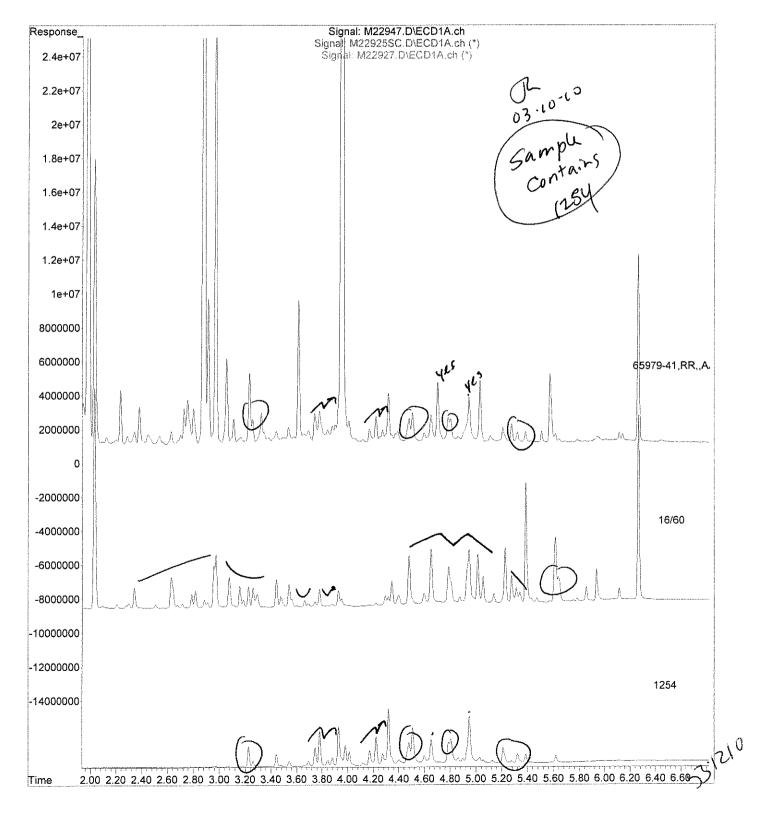
File :C:\msdchem\1\DATA\030910-M\M22947.D

Operator : JK

Acquired: 9 Mar 2010 8:09 pm using AcqMethod PCB.M

Instrument : Instrument M
Sample Name: 65979-41,RR,,A/C

Misc Info : SOIL Vial Number: 23





CLIENT SAMPLE ID

**Project Name:** 

Peabody Terrace

Project Number:

210980

Field Sample ID:

PTB-CWD-11510-0461

March 11, 2010

SAMPLE DATA

Lab Sample ID:

65979-42 RR

Matrix:

Wipe

Percent Solid:

N/A

**Dilution Factor:** 

1.0

**Collection Date:** 

03/02/10

Lab Receipt Date:

03/03/10

**Extraction Date:** 

03/04/10

Analysis Date:

03/09/10

| PCB ANALYTICAL RESULTS |                                         |                    |  |
|------------------------|-----------------------------------------|--------------------|--|
| COMPOUND               | Quantitation<br>Limit μg/wipe           | Results<br>μg/wipe |  |
| PCB-1016               | 0.5                                     | U                  |  |
| PCB-1221               | 0.5                                     | U                  |  |
| PCB-1232               | 0.5                                     | U                  |  |
| PCB-1242               | 0.5                                     | U                  |  |
| PCB-1248               | 0.5                                     | U                  |  |
| PCB-1254               | 0.5                                     | U                  |  |
| PCB-1260               | 0.5                                     | U                  |  |
|                        |                                         |                    |  |
|                        |                                         |                    |  |
|                        | Surrogate Standard Recovery             |                    |  |
|                        | 2,4,5,6-Tetrachloro-m-xylene 97         | %                  |  |
|                        | Decachlorobiphenyl 71                   | %                  |  |
| U=Undetected           | J=Estimated E=Exceeds Calibration Range | B=Detected in      |  |

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report

Authorized signature Myllull

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\030910-M\

Data File: M22948.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 9 Mar 2010 8:19 pm

Operator : JK

Sample : 65979-42,RR,,A/C

Misc : SOIL

ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 10 14:02:10 2010

Quant Method: C:\msdchem\1\METHODS\PCB020410.M

Quant Title : Aroclor 1016/1260

QLast Update : Thu Feb 04 11:18:55 2010

Response via : Initial Calibration

Integrator: ChemStation

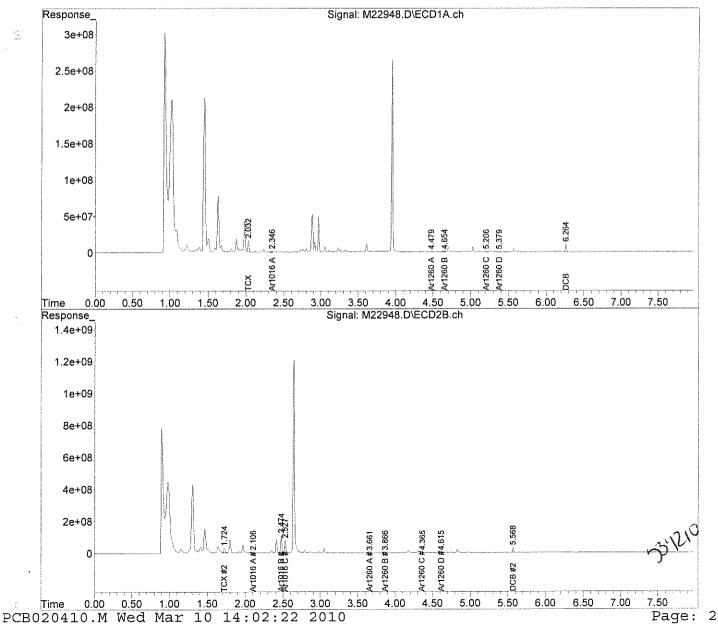
Volume Inj.

Signal #1 Phase : Signal #1 Info :

Signal #2 Phase:

Signal #2 Info :

03.10.10





### CLIENT SAMPLE ID

Project Name:

Peabody Terrace

Project Number:

210980

Field Sample ID:

PTB-CWM-11510-0462

March 11, 2010 SAMPLE DATA

Lab Sample ID:

65979-43

Matrix:

Wipe

Percent Solid:

N/A

Dilution Factor:

1.0

**Collection Date:** 

03/02/10

Lab Receipt Date:

03/03/10

**Extraction Date:** 

03/04/10

**Analysis Date:** 

03/11/10

|                  | PCB ANALYTICAL RES                                   | ULTS               |
|------------------|------------------------------------------------------|--------------------|
| COMPOUND         | Quantitation<br>Limit μg/wipe                        | Results<br>μg/wipe |
| PCB-1016         | 0.5                                                  | U                  |
| PCB-1221         | 0.5                                                  | U                  |
| PCB-1232         | 0.5                                                  | U                  |
| PCB-1242         | 0.5                                                  | U                  |
| PCB-1248         | 0.5                                                  | U                  |
| PCB-1254         | 0.5                                                  | 13.9               |
| PCB-1260         | 0.5                                                  | U                  |
|                  |                                                      |                    |
|                  |                                                      |                    |
|                  | Surrogate Standard Recovery                          |                    |
|                  | 2,4,5,6-Tetrachloro-m-xylene 11 Decachlorobiphenyl 9 |                    |
| U=Undetected J=E | Estimated E=Exceeds Calibration Ran                  | nge B=Detected in  |

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report

Authorized signature St. Klh

# PCB COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M

SDG: 65979

GC Column #1: STX-CLPesticides I

Sample: 65979-43,5X,,A/C

Column ID: 0.25 mm

Data File: M22992.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 5.0

Column ID: 0.25 mm

Column #1

Column #2

| COMPOUND | SAMPLE RESULT (ug/wipe) | SAMPLE RESULT (ug/wipe) | RPD | # |
|----------|-------------------------|-------------------------|-----|---|
| PCB 1254 | 13.9                    | 13.4                    | 3.7 |   |

- # Column to be used to flag RPD values greater than QC limit of 40%
- \* Values outside QC limits

| Comments: |  |
|-----------|--|
|           |  |

Data Path : C:\msdchem\1\DATA\031110-M\

Data File: M22992.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 11 Mar 2010 11:02 am

Operator : JK

Sample : 65979-43,5X,,A/C

Misc : SOIL

ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 11 13:23:34 2010

Quant Method: C:\msdchem\1\METHODS\54SP020410.M

Quant Title :

QLast Update : Fri Feb 05 08:08:17 2010

Response via : Initial Calibration

Integrator: ChemStation

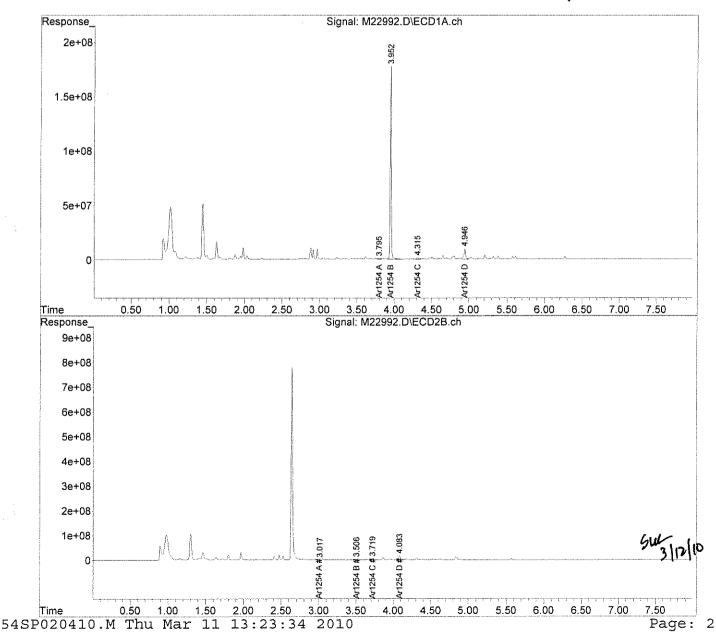
Volume Inj.

Signal #1 Phase : Signal #1 Info :

Signal #2 Phase:

Signal #2 Info :

J-1-10



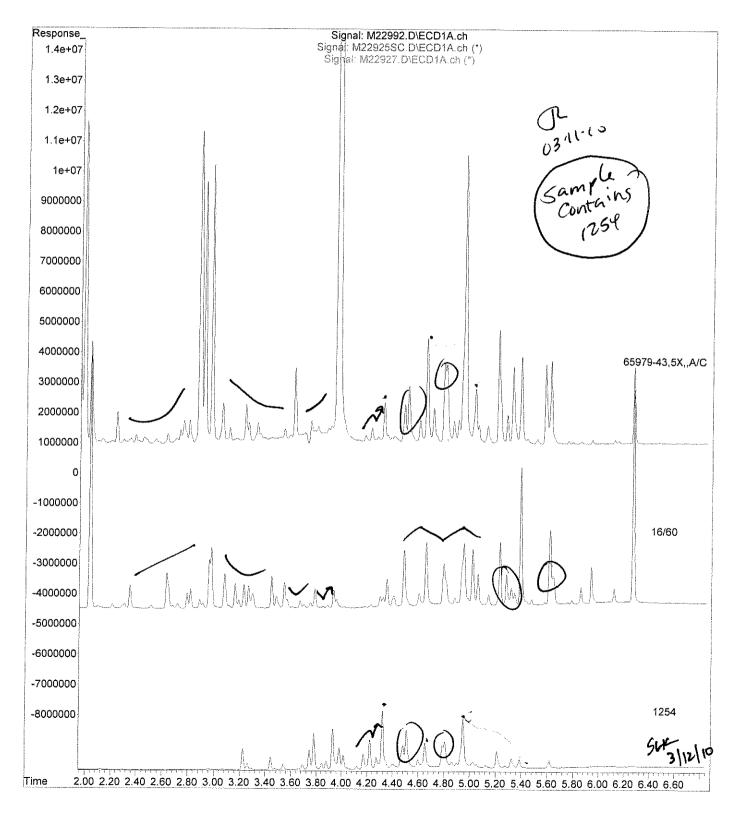
File :C:\msdchem\1\DATA\031110-M\M22992.D

Operator : JK

Acquired : 11 Mar 2010 11:02 am using AcqMethod PCB.M

Instrument : Instrument M
Sample Name: 65979-43,5X,,A/C

Misc Info : SOIL Vial Number: 8





CLIENT SAMPLE ID

**Project Name:** 

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

PTB-CBCQ-1432-0463

March 12, 2010

SAMPLE DATA

Lab Sample ID:

65979-44

Matrix:

Aqueous

Percent Solid:

Dilution Factor:

N/A 1.0

**Collection Date:** 

03/02/10

Lab Receipt Date:

03/03/10

**Extraction Date:** 

03/08/10

Analysis Date:

03/08/10

|                | PCB ANALYTICAL RESULTS                                |                 |  |
|----------------|-------------------------------------------------------|-----------------|--|
| COMPOUND       | Quantitation<br>Limit μg/L                            | Results<br>μg/L |  |
| PCB-1016       | 0.2                                                   | U               |  |
| PCB-1221       | 0.2                                                   | U               |  |
| PCB-1232       | 0.2                                                   | U               |  |
| PCB-1242       | 0.2                                                   | U               |  |
| PCB-1248       | 0.2                                                   | U               |  |
| PCB-1254       | 0.2                                                   | U               |  |
| PCB-1260       | 0.2                                                   | U               |  |
|                |                                                       |                 |  |
|                | Surrogate Standard Recovery                           |                 |  |
|                | 2,4,5,6-Tetrachloro-m-xylene 82 Decachlorobiphenyl 43 | %<br>%          |  |
| II-IIndetected | J=Estimated E=Exceeds Calibration Range               | B=Detected in   |  |

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

COMMENTS:

PCB Report

Authorized signature Wyllull

Data Path : C:\msdchem\1\DATA\030810-L\

Data File: L15824.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 8 Mar 10 4:11 pm

Operator : MG

Sample : 65979-44

Misc

ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: autointl.e Integration File signal 2: autoint2.e

Quant Time: Mar 08 22:33:55 2010

Quant Method: C:\msdchem\1\METHODS\PB030210.M

Quant Title : Aroclor 1016/1260

QLast Update : Wed Mar 03 10:27:55 2010

Response via : Initial Calibration

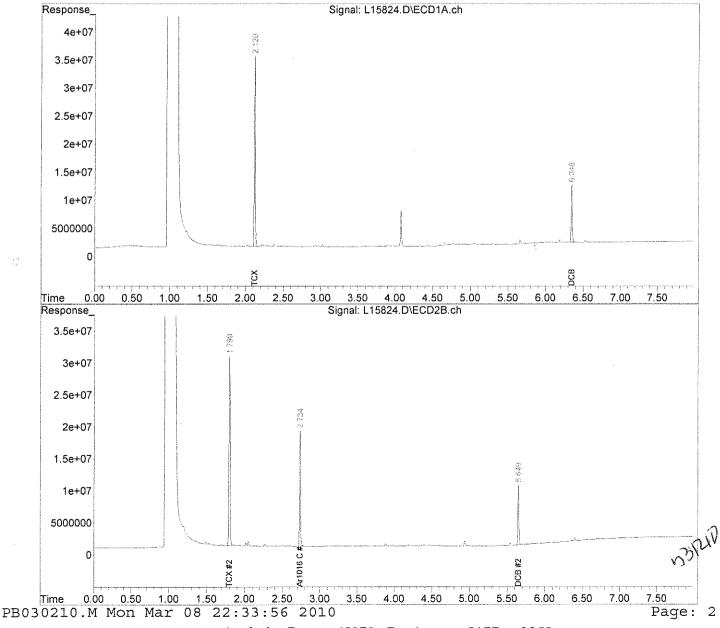
Integrator: ChemStation

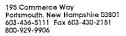
Volume Inj. : 3 ul

Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore

Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um film

03010







CLIENT SAMPLE ID

Project Name:

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

PTX-CBK-111302-0464

March 12, 2010

SAMPLE DATA

Lab Sample ID:

65979-45 RR

Matrix:

Solid

Percent Solid:

99

**Dilution Factor:** 

841

Collection Date:

03/02/10

Lab Receipt Date:

03/03/10

**Extraction Date:** 

03/04/10

**Analysis Date:** 

03/11/10

| PCB ANALYTICAL RESULTS |                             |                  |
|------------------------|-----------------------------|------------------|
| COMPOUND               | Quantitation<br>Limit μg/kg | Results<br>μg/kg |
| PCB-1016               | 27700                       | U                |
| PCB-1221               | 27700                       | U                |
| PCB-1232               | 27700                       | U                |
| PCB-1242               | 27700                       | U                |
| PCB-1248               | 27700                       | U                |
| PCB-1254               | 27700                       | 515000           |
| PCB-1260               | 27700                       | U                |
|                        |                             |                  |
|                        |                             |                  |
| <u>s</u>               | urrogate Standard Recovery  |                  |
| 2,4,                   | 5,6-Tetrachloro-m-xylene *  | %                |
|                        | Decachlorobiphenyl *        | %                |

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

U=Undetected J=Estimated E=Exceeds Calibration Range

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

Results are expressed on a dry weight basis.

\* The surrogates were diluted out.

PCB Report

Authorized signature 511

# PCB COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M

SDG: 65979

GC Column #1: STX-CLPesticides I

Sample: 65979-45,100X,RR,,A/C

Column ID: 0.25 mm

Data File: M22996.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 840.6

Column ID: 0.25 mm

Column #1

Column #2

| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD  | # |
|----------|-----------------------|-----------------------|------|---|
| PCB 1254 | 389156                | 514888                | 27.8 |   |

- # Column to be used to flag RPD values greater than QC limit of 40%
- \* Values outside QC limits

| Comments: |
|-----------|
|-----------|

#### Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\031110-M\

Data File: M22996.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 11 Mar 2010 12:34 pm

Operator : JK

Sample : 65979-45,100X,RR,,A/C

Misc : SOIL

ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 11 13:25:44 2010

Quant Method: C:\msdchem\1\METHODS\54SP020410.M

Quant Title

QLast Update : Fri Feb 05 08:08:17 2010

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

Signal #1 Phase : Signal #1 Info

Signal #2 Phase:

Signal #2 Info :

03/11.13

Signal: M22996.D\ECD1A.ch Response 1.6e+08 1.4e + 081.2e+08 1e+08 8e+07 6e+07 4e+07 2e+07 Ar1254 Ar1254 1.50 2.00 2.50 3.50 4.00 Time 5.00 5.50 6.00 6.50 7.00 7.50 Response 7e+08 Signal: M22996.D\ECD2B.ch 6e+08 5e+08 4e+08 3e+08 2e+08 1e+08 1254 C # ⊱ 3.717 0 Ar1254 B # 1254 D# 2.50 3.50 1.50 2.00 3.00 4.00 4.50 0.50 1.00 5.00 5.50 6.00 6.50 7.00 7.50 54SP020410.M Thu Mar 11 13:25:54 2010 Page: 2

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File :C:\msdchem\1\DATA\031110-M\M22996.D

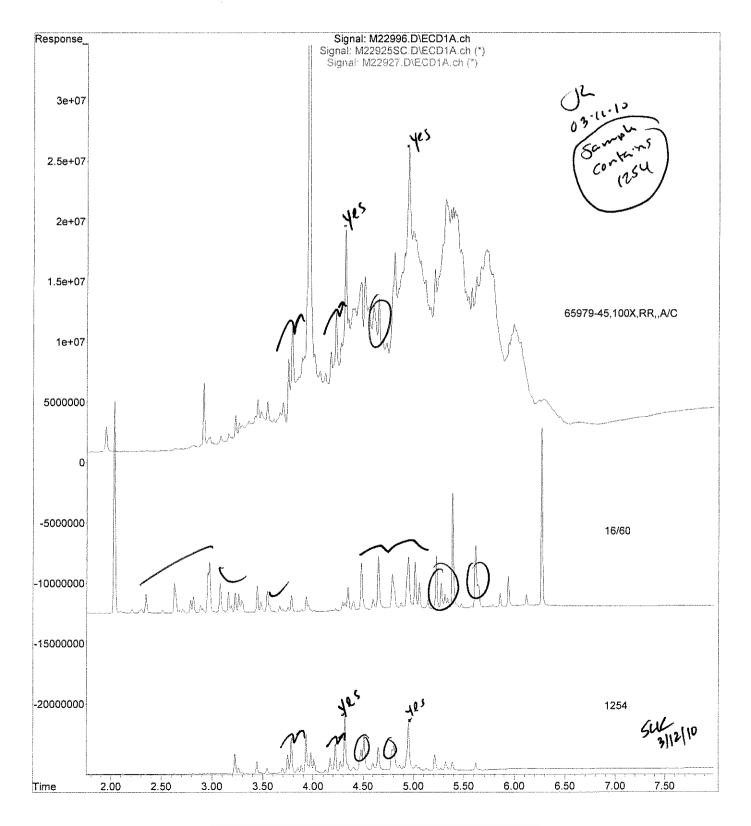
Operator : JK

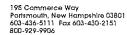
Acquired : 11 Mar 2010 12:34 pm using AcqMethod PCB.M

Instrument : Instrument M

Sample Name: 65979-45,100X,RR,,A/C

Misc Info : SOIL Vial Number: 11







### CLIENT SAMPLE ID

**Project Name:** 

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

PTX-CBC-111302-0465

March 10, 2010

### SAMPLE DATA

Lab Sample ID:

65979-46

Matrix:

Solid

Percent Solid:

98 10

Dilution Factor:

03/02/10

Collection Date: Lab Receipt Date:

**Extraction Date:** 

03/03/10 03/05/10

**Analysis Date:** 

03/08/10

PCB ANALYTICAL RESULTS

| COMPOUND | Quantitation<br>Limit $\mu g/kg$ | Results<br>μg/kg |
|----------|----------------------------------|------------------|
| PCB-1016 | 330                              | U                |
| PCB-1221 | 330                              | U                |
| PCB-1232 | 330                              | U                |
| PCB-1242 | 330                              | U                |
| PCB-1248 | 330                              | U                |
| PCB-1254 | 330                              | U                |
| PCB-1260 | 330                              | U                |
|          |                                  |                  |

#### Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene

93 %

Decachlorobiphenyl

79 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature Mullull

Data Path : C:\msdchem\1\DATA\030810-M\

Data File: M22866.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 8 Mar 2010 5:40 pm

Operator : JK

Sample : 65979-46 Misc : SOIL

ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 09 15:33:40 2010

Quant Method : C:\msdchem\1\METHODS\PCB020410.M

Quant Title : Aroclor 1016/1260

QLast Update: Thu Feb 04 11:18:55 2010

Response via : Initial Calibration

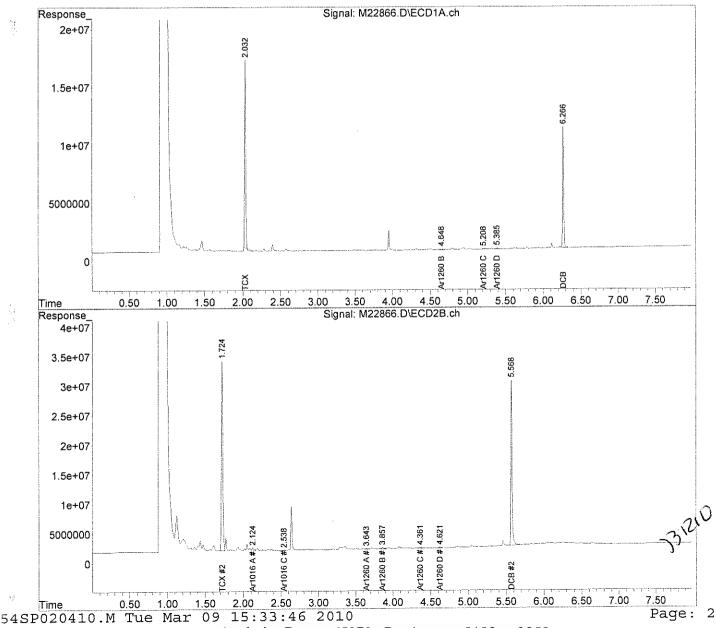
Integrator: ChemStation

Volume Inj. : Signal #1 Phase :

Signal #1 Phase : Signal #1 Info : Signal #2 Phase:

Signal #2 Info :

03.01.10





CLIENT SAMPLE ID

Project Name:

Peabody Terrace

Project Number:

210980

Field Sample ID:

PTX-CBC-111302-0466

March 10, 2010

SAMPLE DATA

Lab Sample ID:

65979-47

Matrix:

Solid

Percent Solid:

98

Dilution Factor:

10

**Collection Date:** 

03/02/10

Lab Receipt Date:

03/03/10

**Extraction Date:** 

03/05/10

Analysis Date:

03/08/10

| PCB ANALYTICAL RESULTS |                             |                  |  |  |  |  |
|------------------------|-----------------------------|------------------|--|--|--|--|
| COMPOUND               | Quantitation<br>Limit μg/kg | Results<br>μg/kg |  |  |  |  |
| PCB-1016               | 330                         | U                |  |  |  |  |
| PCB-1221               | 330                         | U                |  |  |  |  |
| PCB-1232               | 330                         | U                |  |  |  |  |
| PCB-1242               | 330                         | U                |  |  |  |  |
| PCB-1248               | 330                         | U                |  |  |  |  |
| PCB-1254               | 330                         | 318              |  |  |  |  |
| PCB-1260               | 330                         | U                |  |  |  |  |
|                        |                             |                  |  |  |  |  |

NOD ANALYZINGAL DEGLICZO

<u>Surrogate Standard Recovery</u>

2,4,5,6-Tetrachloro-m-xylene

94 %

Decachlorobiphenyl

76 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

Results are expressed on a dry weight basis.

PCB Report

Authorized signature Whileli

# PCB COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M

SDG: 65979

GC Column #1: STX-CLPesticides I

Sample: 65979-47

Column ID: 0.25 mm

Data File: M22867.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 10.0

Column ID: 0.25 mm

Column #1

Column #2

| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
|----------|-----------------------|-----------------------|-----|---|
| PCB 1254 | 291                   | 318                   | 8.9 |   |

- # Column to be used to flag RPD values greater than QC limit of 40%
- \* Values outside QC limits

| Comments: |  |  |
|-----------|--|--|

Data Path : C:\msdchem\1\DATA\030810-M\

Data File: M22867.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 8 Mar 2010 5:50 pm

Operator : JK

Sample : 65979-47 Misc : SOIL

ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e Quant Time: Mar 09 15:40:08 2010

Quant Method: C:\msdchem\1\METHODS\54SP020410.M

Quant Title :

QLast Update : Fri Feb 05 08:08:17 2010

Response via : Initial Calibration

Integrator: ChemStation

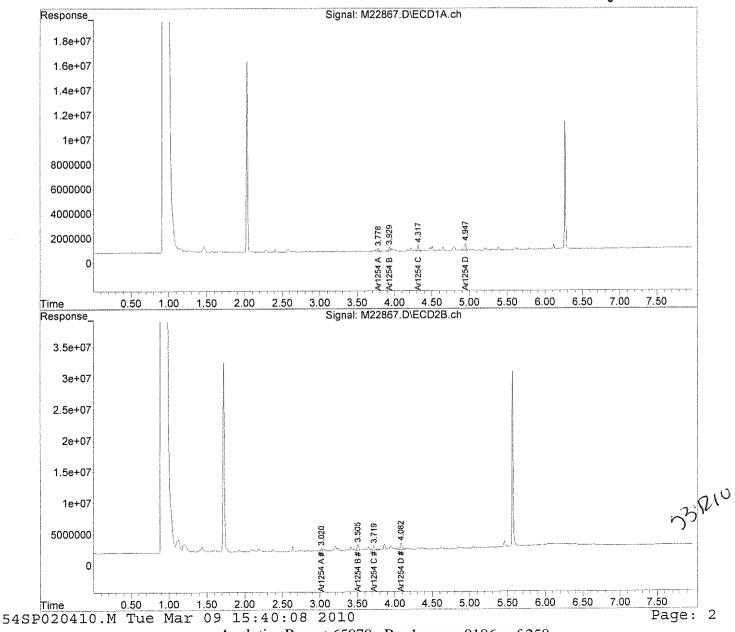
Volume Inj. :

Signal #1 Phase :
Signal #1 Info :

Signal #2 Phase:

Signal #2 Info:

03.04.13



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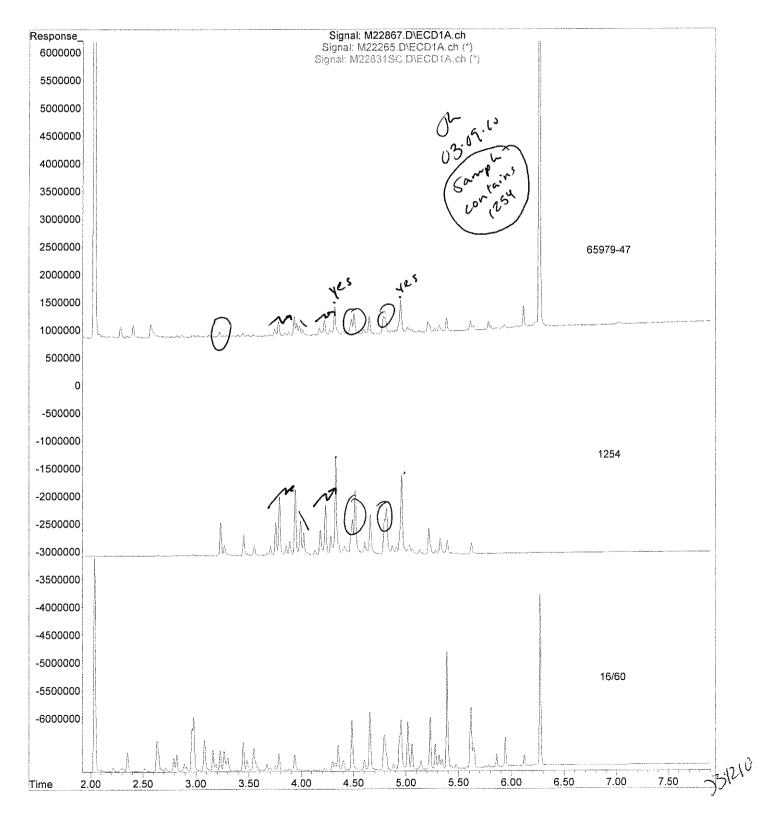
File :C:\msdchem\1\DATA\030810-M\M22867.D

Operator : JK

Acquired: 8 Mar 2010 5:50 pm using AcqMethod PCB.M

Instrument : Instrument M

Sample Name: 65979-47 Misc Info : SOIL Vial Number: 30



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CLIENT SAMPLE ID

**Project Name:** 

Peabody Terrace

Project Number:

210980

Field Sample ID:

PTX-CBK-111302-0467

March 12, 2010

SAMPLE DATA

Lab Sample ID:

65979-48

Matrix:

Solid

Percent Solid:

100

Dilution Factor:

492

Collection Date:

03/02/10

Lab Receipt Date:

03/03/10

**Extraction Date:** 

03/04/10

Analysis Date:

03/09/10

| PCB. | ANAL | Ϋ́ | TICAL | RESULTS |
|------|------|----|-------|---------|
|------|------|----|-------|---------|

| COMPOUND | Quantitation<br>Limit µg/kg | Results<br>μg/kg |
|----------|-----------------------------|------------------|
| PCB-1016 | 16200                       | U                |
| PCB-1221 | 16200                       | U                |
| PCB-1232 | 16200                       | U                |
| PCB-1242 | 16200                       | U                |
| PCB-1248 | 16200                       | U                |
| PCB-1254 | 16200                       | 310000           |
| PCB-1260 | 16200                       | U                |
|          |                             |                  |

# Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene

%

Decachlorobiphenyl

%

J=Estimated E=Exceeds Calibration Range B=Detected in U=Undetected

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

Results are expressed on a dry weight basis.

\* The surrogates were diluted out.

PCB Report

# PCB COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M

SDG: 65979

GC Column #1: STX-CLPesticides I

Sample: 65979-48,50X,,A/C

Column ID: 0.25 mm

Data File: M22951.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 492.4

Column ID: 0.25 mm

Column #1

Column #2

| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD  | # |
|----------|-----------------------|-----------------------|------|---|
| PCB 1254 | 310474                | 266201                | 15.4 |   |

- # Column to be used to flag RPD values greater than QC limit of 40%
- \* Values outside QC limits

| Comments: |  |
|-----------|--|
|           |  |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\030910-M\

Data File: M22951.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 9 Mar 2010 8:49 pm

Operator : JK

Sample : 65979-48,50X,,A/C

Misc : SOIL

ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 10 14:04:33 2010

Quant Method : C:\msdchem\1\METHODS\54SP020410.M

့ျွံ့Quant Title :

QLast Update : Fri Feb 05 08:08:17 2010

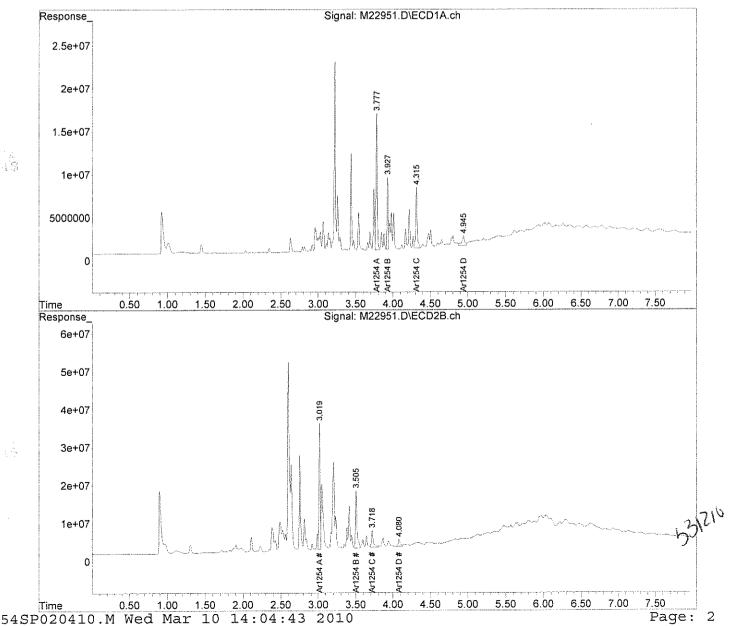
Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : Signal #1 Phase :

Signal #1 Info

Signal #2 Phase: Signal #2 Info: 03.10"



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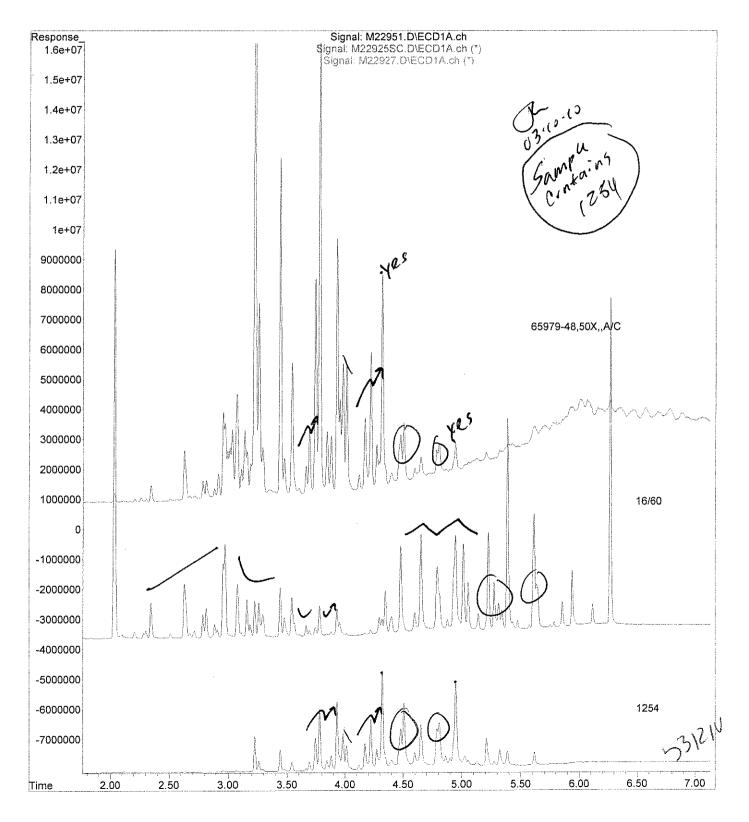
File :C:\msdchem\1\DATA\030910-M\M22951.D

Operator : JK

Acquired: 9 Mar 2010 8:49 pm using AcqMethod PCB.M

Instrument : Instrument M
Sample Name: 65979-48,50X,,A/C

Misc Info : SOIL Vial Number: 27





CLIENT SAMPLE ID

**Project Name:** 

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

PTX-CBK-111302-0468

March 12, 2010

SAMPLE DATA

Lab Sample ID:

65979-49

Matrix:

Solid

Percent Solid:

99

Dilution Factor:

875

**Collection Date:** 

03/02/10

Lab Receipt Date:

03/03/10

**Extraction Date:** 

03/05/10

Analysis Date:

03/09/10

|               | PCB ANALYTICAL RES                   | SULTS              |  |
|---------------|--------------------------------------|--------------------|--|
| COMPOUND      | Quantitation<br>Limit μg/kg          | Results<br>μg/kg   |  |
| PCB-1016      | 28900                                | U                  |  |
| PCB-1221      | 28900                                | U                  |  |
| PCB-1232      | 28900                                | U                  |  |
| PCB-1242      | 28900                                | U                  |  |
| PCB-1248      | 28900                                | U                  |  |
| PCB-1254      | 28900                                | 525000             |  |
| PCB-1260      | 28900                                | U                  |  |
|               |                                      |                    |  |
|               | Surrogate Standard Recovery          |                    |  |
|               | 2,7,5,0 100,000,000 111 11,1000      | * %<br>* %         |  |
| LI-Undatected | J=Estimated E=Exceeds Calibration Ra | nnga R-Datastad in |  |

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

Results are expressed on a dry weight basis.

\* The surrogates were diluted out.

PCB Report

Authorized signature Mullull

# PCB COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M

SDG: 65979

GC Column #1: STX-CLPesticides I

Sample: 65979-49,100X,,A/C

Column ID: 0.25 mm

Data File: M22968.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 875.0

Column ID: 0.25 mm

Column #1

Column #2

| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD  | # |
|----------|-----------------------|-----------------------|------|---|
| PCB 1254 | 525305                | 456880                | 13.9 |   |

- # Column to be used to flag RPD values greater than QC limit of 40%
- \* Values outside QC limits

| Comments: |  |
|-----------|--|
|           |  |

# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\030910-M\

Data File: M22968.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 9 Mar 2010 11:41 pm

Operator : JK

Sample : 65979-49,100X,,A/C

Misc : SOIL

ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 10 15:45:10 2010

Quant Method: C:\msdchem\1\METHODS\54SP020410.M

Quant Title :

QLast Update : Fri Feb 05 08:08:17 2010

Response via : Initial Calibration

Integrator: ChemStation

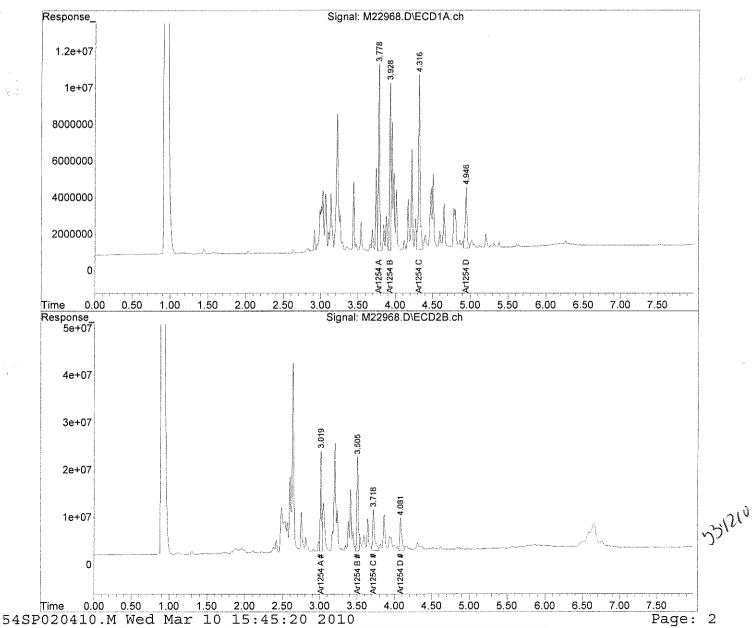
Volume Inj. :

Signal #1 Phase : Signal #1 Info :

Signal #2 Phase:

Signal #2 Info :

13-11-12



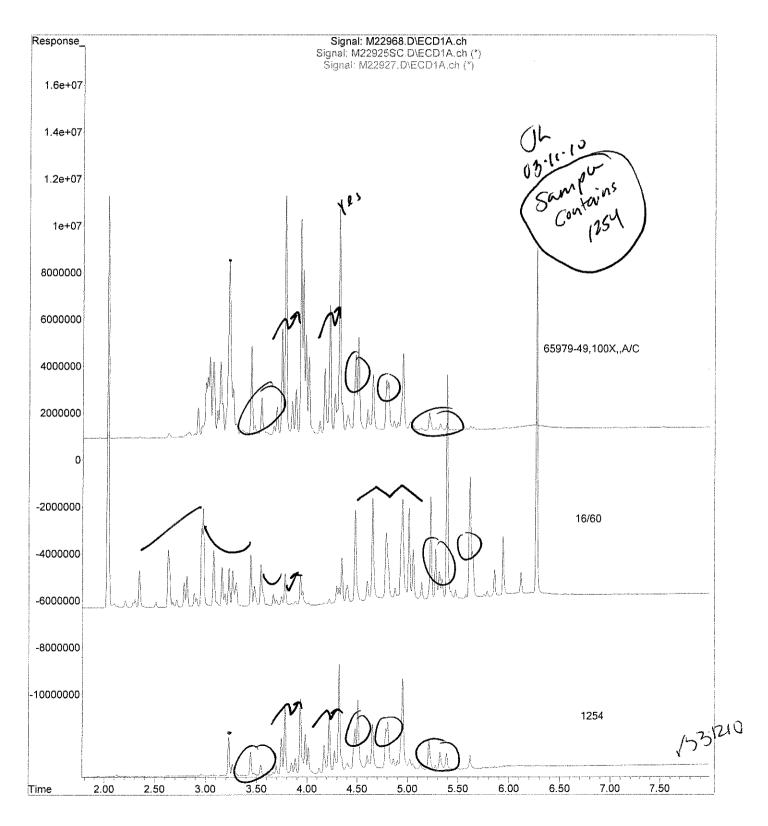
File :C:\msdchem\1\DATA\030910-M\M22968.D

Operator : JK

Acquired : 9 Mar 2010 11:41 pm using AcqMethod PCB.M

Instrument : Instrument M
Sample Name: 65979-49,100X,,A/C

Misc Info : SOIL Vial Number: 42





CLIENT SAMPLE ID

Project Name:

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

PTX-CWK-111302-0469

March 12, 2010

SAMPLE DATA

Lab Sample ID:

65979-50

Matrix:

Wipe

Percent Solid:

N/A

Dilution Factor:

5.0

Collection Date:

03/02/10

Lab Receipt Date:

03/03/10

Extraction Date:

03/05/10

**Analysis Date:** 

03/09/10

| PCB ANALYTICAL RESULTS |                                                       |                    |  |
|------------------------|-------------------------------------------------------|--------------------|--|
| COMPOUND               | Quantitation<br>Limit μg/wipe                         | Results<br>μg/wipe |  |
| PCB-1016               | 3                                                     | Ŭ                  |  |
| PCB-1221               | 3                                                     | U                  |  |
| PCB-1232               | 3                                                     | U                  |  |
| PCB-1242               | 3                                                     | U                  |  |
| PCB-1248               | 3                                                     | U                  |  |
| PCB-1254               | . 3                                                   | 13                 |  |
| PCB-1260               | 3                                                     | U                  |  |
|                        |                                                       |                    |  |
|                        | Surrogate Standard Recovery                           |                    |  |
|                        | 2,4,5,6-Tetrachloro-m-xylene 98 Decachlorobiphenyl 95 | %<br>%             |  |
| U=Undetected .         | J=Estimated E=Exceeds Calibration Range               | B=Detected in      |  |

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report

Authorized signature

Mplebell

Analytics Report 65979\_ Rev1 page 0196 of 258

# PCB COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M

SDG: 65979

GC Column #1: STX-CLPesticides I

Sample: 65979-50,5X,,A/C

Column ID: 0.25 mm

Data File: M22967.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 5.0

Column ID: 0.25 mm

Column #1

Column #2

| COMPOUND | SAMPLE RESULT (ug/wipe) | SAMPLE RESULT (ug/wipe) | RPD | # |
|----------|-------------------------|-------------------------|-----|---|
| PCB 1254 | 12.4                    | 13.0                    | 4.6 |   |

- # Column to be used to flag RPD values greater than QC limit of 40%
- \* Values outside QC limits

| Comments: |
|-----------|
|-----------|

Data Path : C:\msdchem\1\DATA\030910-M\

Data File: M22967.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 9 Mar 2010 11:30 pm

Operator : JK

Sample : 65979-50,5X,,A/C

Misc : SOIL

ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e

Quant Time: Mar 10 15:44:34 2010

Quant Method : C:\msdchem\1\METHODS\54SP020410.M

Quant Title

QLast Update : Fri Feb 05 08:08:17 2010

Response via : Initial Calibration

Integrator: ChemStation

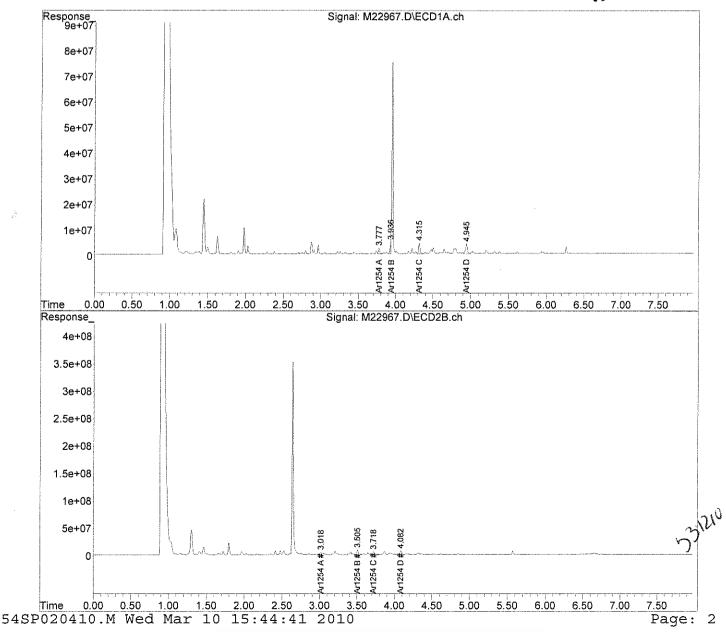
Volume Inj.

Signal #1 Phase : Signal #1 Info :

Signal #2 Phase:

Signal #2 Info :

Jr. W.



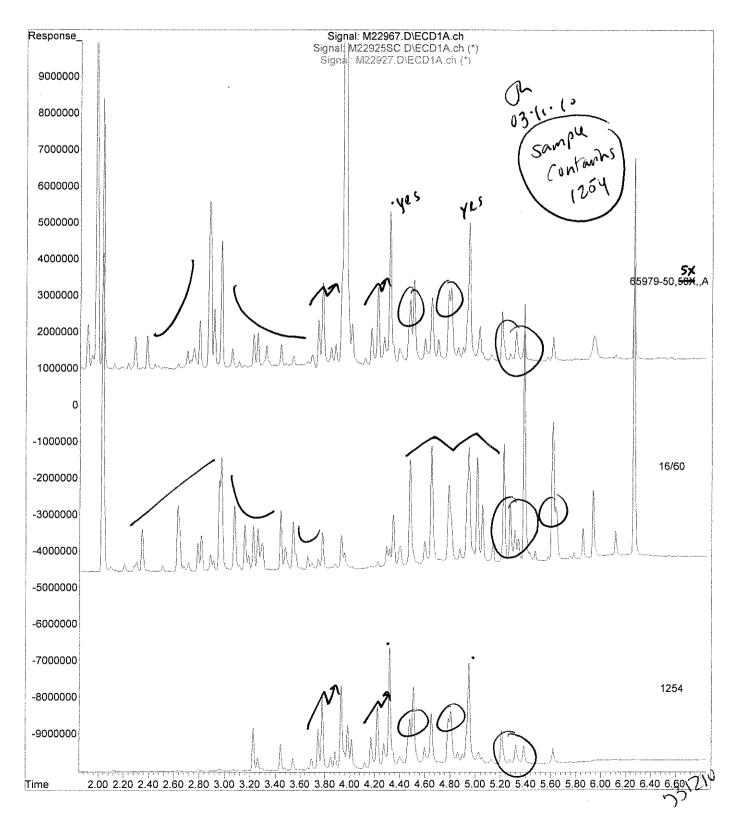
File :C:\msdchem\1\DATA\030910-M\M22967.D

Operator : JK

Acquired: 9 Mar 2010 11:30 pm using AcqMethod PCB.M

Instrument : Instrument M
Sample Name: 65979-50,5X,,A/C

Misc Info : SOIL Vial Number: 41





### CLIENT SAMPLE ID

**Project Name:** 

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

PTX-CWK-111302-0470

March 11, 2010 SAMPLE DATA

Lab Sample ID:

65979-51 RR

Matrix:

Wipe

Percent Solid:

N/A

**Dilution Factor:** 

1.0

**Collection Date:** 

03/02/10

Lab Receipt Date:

03/03/10

**Extraction Date:** 

03/05/10

Analysis Date:

03/09/10

| PCB | ANAL | YTICAL | RESUL | TS |
|-----|------|--------|-------|----|
|     |      |        |       |    |

| COMPOUND | Quantitation<br>Limit µg/wipe | Results<br>μg/wipe |
|----------|-------------------------------|--------------------|
| PCB-1016 | 0.5                           | U                  |
| PCB-1221 | 0.5                           | U                  |
| PCB-1232 | 0.5                           | U                  |
| PCB-1242 | 0.5                           | U                  |
| PCB-1248 | 0.5                           | U                  |
| PCB-1254 | 0.5                           | 4.7                |
| PCB-1260 | 0.5                           | U                  |
|          |                               |                    |

### Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene

% 96

Decachlorobiphenyl

84 %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report

# PCB COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M

SDG: 65979

GC Column #1: STX-CLPesticides I

Sample: 65979-51,RR,,A/C

Column ID: 0.25 mm

Data File: M22958.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 1.0

Column ID: 0.25 mm

Column #1

Column #2

| COMPOUND | SAMPLE RESULT (ug/wipe) | SAMPLE RESULT (ug/wipe) | RPD | # |
|----------|-------------------------|-------------------------|-----|---|
| PCB 1254 | 4.7                     | 4.2                     | 9.9 |   |

- # Column to be used to flag RPD values greater than QC limit of 40%
- \* Values outside QC limits

| Comments: |  |
|-----------|--|
|           |  |
|           |  |

Data Path : C:\msdchem\1\DATA\030910-M\

Data File: M22958.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 9 Mar 2010 10:00 pm

Operator : JK

Sample : 65979-51,RR,,A/C

Misc : SOIL

ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e

Quant Time: Mar 10 15:37:05 2010

Quant Method : C:\msdchem\1\METHODS\54SP020410.M

Quant Title

QLast Update : Fri Feb 05 08:08:17 2010

Response via : Initial Calibration

Integrator: ChemStation

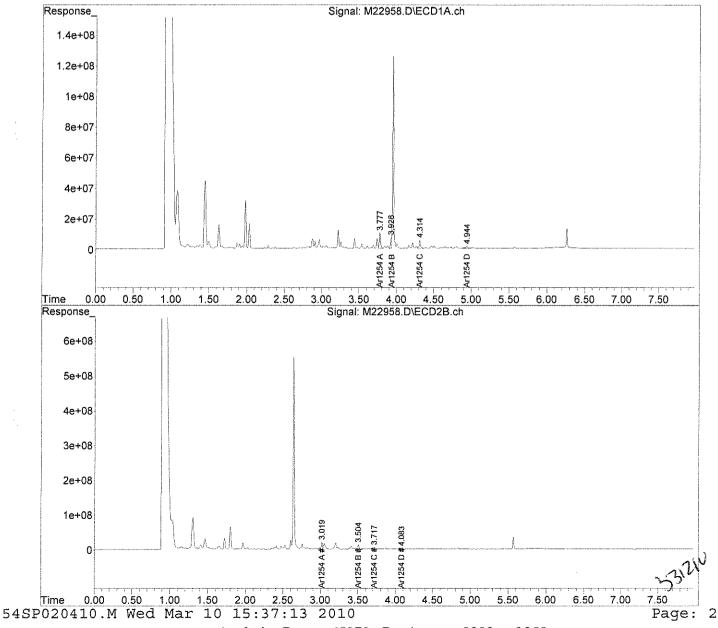
Volume Inj.

Signal #1 Phase : Signal #1 Info :

Signal #2 Phase:

Signal #2 Info :

13,1513



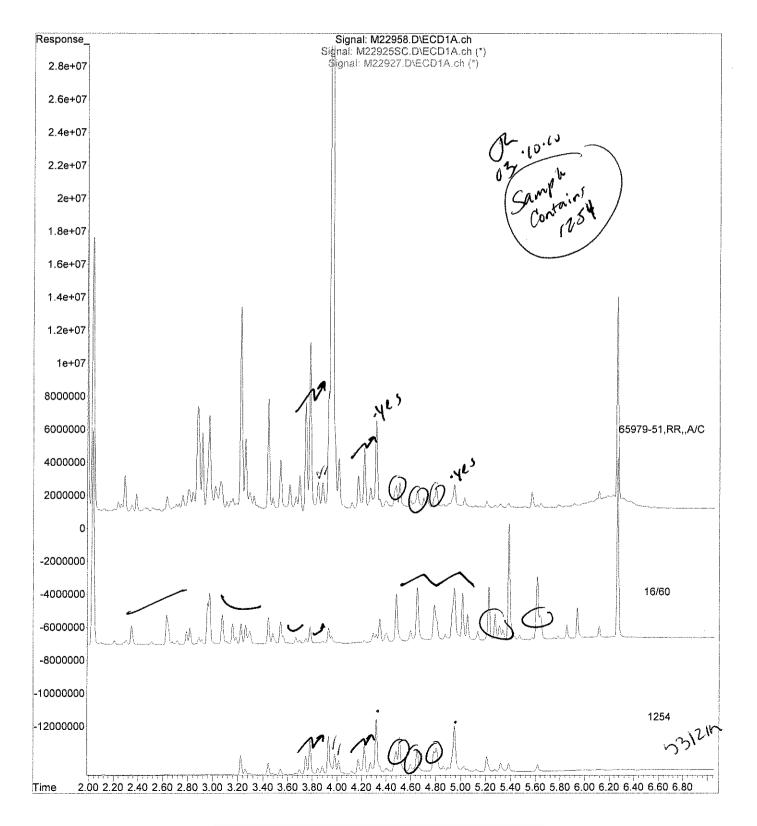
File :C:\msdchem\1\DATA\030910-M\M22958.D

Operator : JK

Acquired : 9 Mar 2010 10:00 pm using AcqMethod PCB.M

Instrument : Instrument M
Sample Name: 65979-51,RR,,A/C

Misc Info : SOIL Vial Number: 32





CLIENT SAMPLE ID

**Project Name:** 

Peabody Terrace

Project Number:

210980

Field Sample ID:

PTX-CWK-111302-0471

March 11, 2010

### SAMPLE DATA

Lab Sample ID:

65979-52 RR

Matrix:

Wipe

Percent Solid:

N/A

Dilution Factor:

1.0

Collection Date:

03/02/10

Lab Receipt Date:

**Extraction Date:** 

03/03/10 03/05/10

Analysis Date:

03/09/10

| PCB ANALYTICAL RESULTS |                                                       |                    |  |
|------------------------|-------------------------------------------------------|--------------------|--|
| COMPOUND               | Quantitation<br>Limit μg/wipe                         | Results<br>µg/wìpe |  |
| PCB-1016               | 0.5                                                   | Ū                  |  |
| PCB-1221               | 0.5                                                   | Ŭ                  |  |
| PCB-1232               | 0.5                                                   | U                  |  |
| PCB-1242               | 0.5                                                   | U                  |  |
| PCB-1248               | 0.5                                                   | U                  |  |
| PCB-1254               | 0.5                                                   | U                  |  |
| PCB-1260               | 0.5                                                   | U                  |  |
|                        |                                                       |                    |  |
|                        |                                                       |                    |  |
|                        | Surrogate Standard Recovery                           |                    |  |
|                        | 2,4,5,6-Tetrachloro-m-xylene 87 Decachlorobiphenyl 77 | %<br>%             |  |
| U=Undetected J         | =Estimated E=Exceeds Calibration Range                | B=Detected in      |  |

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report

Authorized signature Mullull

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\030910-M\

Data File: M22959.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 9 Mar 2010 10:10 pm

Operator : JK

POF

Sample : 65979-52,RR,,A/C

Misc : SOIL

ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e

Quant Time: Mar 10 15:37:34 2010

Quant Method : C:\msdchem\1\METHODS\PCB020410.M

Quant Title : Aroclor 1016/1260

QLast Update : Thu Feb 04 11:18:55 2010

Response via : Initial Calibration

Integrator: ChemStation

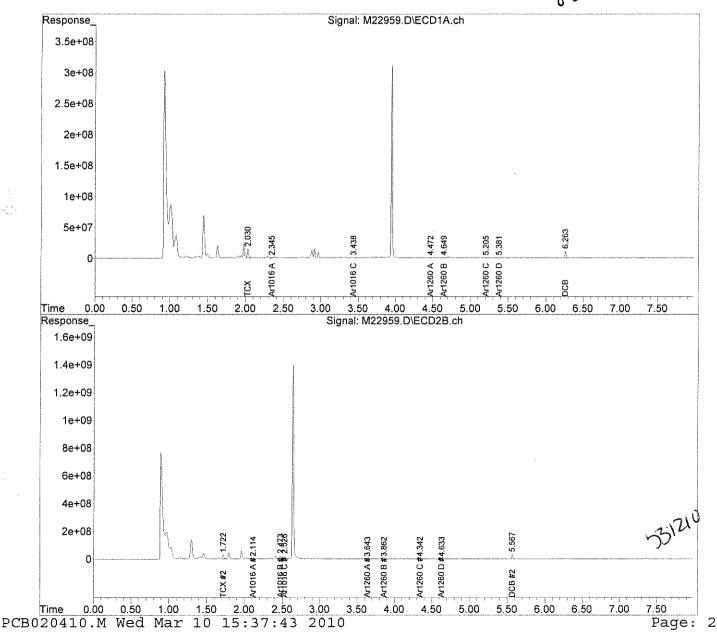
Volume Inj.

Signal #1 Phase :
Signal #1 Info :

Signal #2 Phase:

Signal #2 Info :

(3101)





CLIENT SAMPLE ID

**Project Name:** 

Peabody Terrace

Project Number:

210980

Field Sample ID:

PTX-CWK-111302-0472

March 11, 2010

## SAMPLE DATA

Lab Sample ID:

65979-53 RR

Matrix:

Wipe

Percent Solid:

N/A

**Dilution Factor:** 

1.0

**Collection Date:** 

03/02/10

Lab Receipt Date:

03/03/10

**Extraction Date:** 

03/05/10

**Analysis Date:** 

03/09/10

| PCB ANALYTICAL RESULTS |                                         |                    |  |  |
|------------------------|-----------------------------------------|--------------------|--|--|
| COMPOUND               | Quantitation<br>Limit μg/wipe           | Results<br>μg/wipe |  |  |
| PCB-1016               | 0.5                                     | U                  |  |  |
| PCB-1221               | 0.5                                     | U                  |  |  |
| PCB-1232               | 0.5                                     | U                  |  |  |
| PCB-1242               | 0.5                                     | U                  |  |  |
| PCB-1248               | 0.5                                     | U                  |  |  |
| PCB-1254               | 0.5                                     | 6.5                |  |  |
| PCB-1260               | 0.5                                     | U                  |  |  |
|                        |                                         |                    |  |  |
|                        |                                         |                    |  |  |
|                        | Surrogate Standard Recovery             |                    |  |  |
|                        | 2,4,5,6-Tetrachloro-m-xylene 95         | %                  |  |  |
|                        | Decachlorobiphenyl 83                   | %                  |  |  |
| U=Undetected           | J=Estimated E=Exceeds Calibration Range | B=Detected in      |  |  |

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report

Authorized signature Wyllull

# PCB COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M SDG: 65979

GC Column #1: STX-CLPesticides I Sample: 65979-53,RR,,A/C

Column ID: 0.25 mm Data File: M22960.D

GC Column #2: STX-CLPesticides II Dilution Factor: 1.0

Column ID: 0.25 mm

|          | Column #1               | Column #2               |     |   |
|----------|-------------------------|-------------------------|-----|---|
| COMPOUND | SAMPLE RESULT (ug/wipe) | SAMPLE RESULT (ug/wipe) | RPD | # |
| PCR 1254 | 6.5                     | ۲ و                     | 110 |   |

# Column to be used to flag RPD values greater than QC limit of 40%

\* Values outside QC limits

| Comments: |  |
|-----------|--|
|           |  |

Data Path : C:\msdchem\1\DATA\030910-M\

Data File : M22960.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 9 Mar 2010 10:20 pm

Operator : JK

 $E_{i}^{i}$ 

Sample : 65979-53,RR,,A/C

Misc : SOIL

ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 10 15:38:36 2010

Quant Method: C:\msdchem\1\METHODS\54SP020410.M

Quant Title

QLast Update : Fri Feb 05 08:08:17 2010

Response via : Initial Calibration

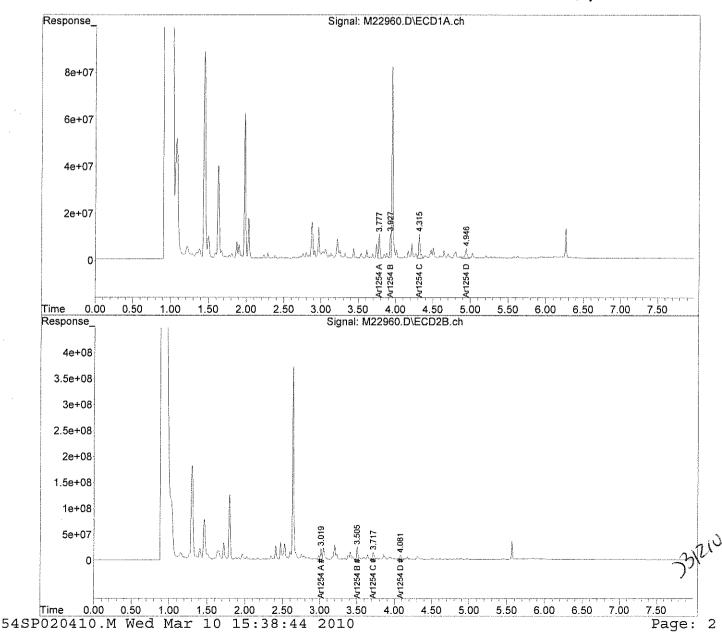
Integrator: ChemStation

Volume Inj.

Signal #1 Phase : Signal #1 Info :

Signal #2 Phase:
Signal #2 Info :

Ju ...



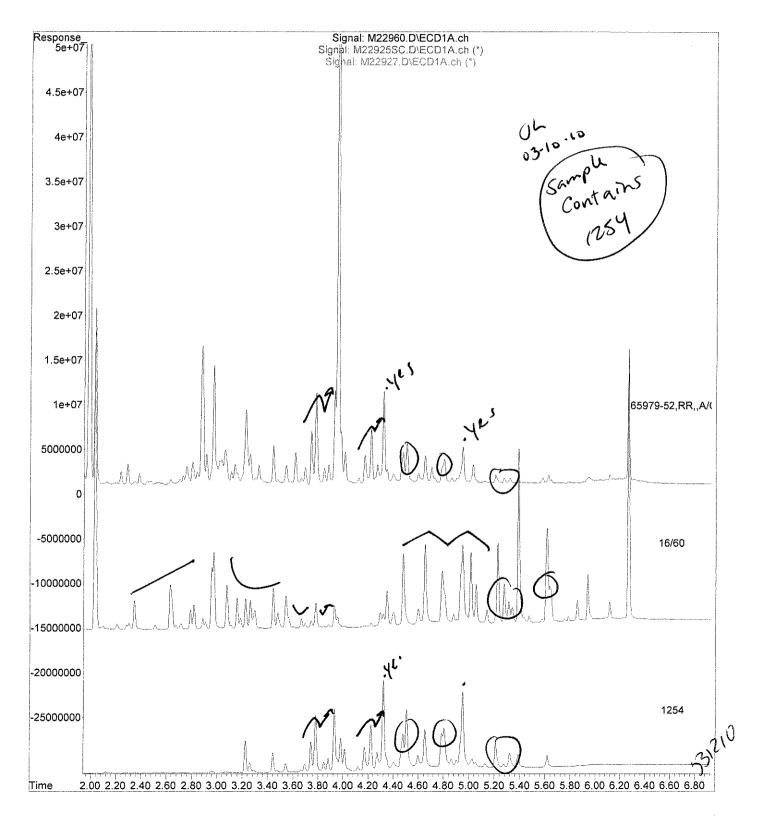
File :C:\msdchem\1\DATA\030910-M\M22960.D

Operator : JK

Acquired : 9 Mar 2010 10:20 pm using AcqMethod PCB.M

Instrument : Instrument M
Sample Name: 65979-53,RR,,A/C

Misc Info : SOIL Vial Number: 34





CLIENT SAMPLE ID

Project Name:

Peabody Terrace

Project Number:

210980

Field Sample ID:

PTX-CWW-111302-0473

March 11, 2010

SAMPLE DATA

Lab Sample ID:

65979-54 RR

Matrix:

Wipe

Percent Solid:

N/A

Dilution Factor:

1.0

**Collection Date:** 

03/02/10

Lab Receipt Date:

03/03/10

**Extraction Date:** 

03/05/10

Analysis Date:

03/09/10

| PCB ANALYTICAL RESULTS |                                                       |                      |  |  |
|------------------------|-------------------------------------------------------|----------------------|--|--|
| COMPOUND               | Quantitation<br>Limit μg/wipe                         | Results $\mu$ g/wipe |  |  |
| PCB-1016               | 0.5                                                   | U                    |  |  |
| PCB-1221               | 0.5                                                   | U                    |  |  |
| PCB-1232               | 0.5                                                   | U                    |  |  |
| PCB-1242               | 0.5                                                   | U                    |  |  |
| PCB-1248               | 0.5                                                   | U                    |  |  |
| PCB-1254               | 0.5                                                   | U                    |  |  |
| PCB-1260               | 0.5                                                   | U                    |  |  |
|                        |                                                       |                      |  |  |
|                        |                                                       |                      |  |  |
|                        | Surrogate Standard Recovery                           |                      |  |  |
|                        | 2,4,5,6-Tetrachloro-m-xylene 95 Decachlorobiphenyl 80 | %<br>%               |  |  |
| U=Undetected           | J=Estimated E=Exceeds Calibration Range               | B=Detected in        |  |  |

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report

# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\030910-M\

Data File: M22961.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 9 Mar 2010 10:30 pm

Operator : JK

Sample : 65979-54,RR,,A/C

Misc : SOIL

ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 10 15:39:01 2010

Quant Method : C:\msdchem\1\METHODS\PCB020410.M

Quant Title : Aroclor 1016/1260

QLast Update : Thu Feb 04 11:18:55 2010

Response via : Initial Calibration

Integrator: ChemStation

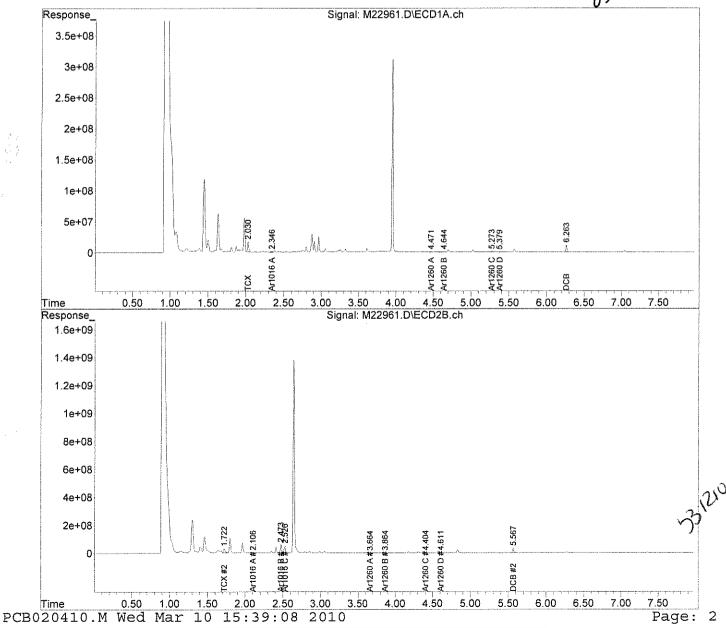
Volume Inj. : Signal #1 Phase :

Signal #1 Info

Signal #2 Phase:

Signal #2 Info :

13.10.11





CLIENT SAMPLE ID

Project Name:

Peabody Terrace

Project Number:

210980

Field Sample ID:

PTX-CWT-111302-0474

March 11, 2010

SAMPLE DATA

Lab Sample ID:

65979-55 RR

Matrix:

Wipe

Percent Solid:

**Dilution Factor:** 

N/A 1.0

Collection Date:

03/02/10

Lab Receipt Date:

03/03/10

**Extraction Date:** 

03/05/10

Analysis Date:

03/09/10

| PCB ANALYTICAL RESULTS |                                                       |                    |  |
|------------------------|-------------------------------------------------------|--------------------|--|
| COMPOUND               | Quantitation<br>Limit $\mu$ g/wipe                    | Results<br>μg/wipe |  |
| PCB-1016               | 0.5                                                   | U                  |  |
| PCB-1221               | 0.5                                                   | Ŭ                  |  |
| PCB-1232               | 0.5                                                   | U                  |  |
| PCB-1242               | 0.5                                                   | U                  |  |
| PCB-1248               | 0.5                                                   | U                  |  |
| PCB-1254               | 0.5                                                   | U                  |  |
| PCB-1260               | 0.5                                                   | U                  |  |
|                        |                                                       |                    |  |
|                        |                                                       |                    |  |
|                        | Surrogate Standard Recovery                           |                    |  |
| 2                      | 2,4,5,6-Tetrachloro-m-xylene 95 Decachlorobiphenyl 77 | %<br>%             |  |

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report

# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\030910-M\

Data File: M22962.D

Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 9 Mar 2010 10:40 pm

Operator : JK

P

Sample : 65979-55, RR, , A/C

Misc : SOIL

ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 10 15:40:16 2010

Quant Method: C:\msdchem\1\METHODS\PCB020410.M

Quant Title : Aroclor 1016/1260

QLast Update : Thu Feb 04 11:18:55 2010

Response via: Initial Calibration

Integrator: ChemStation

Volume Inj.

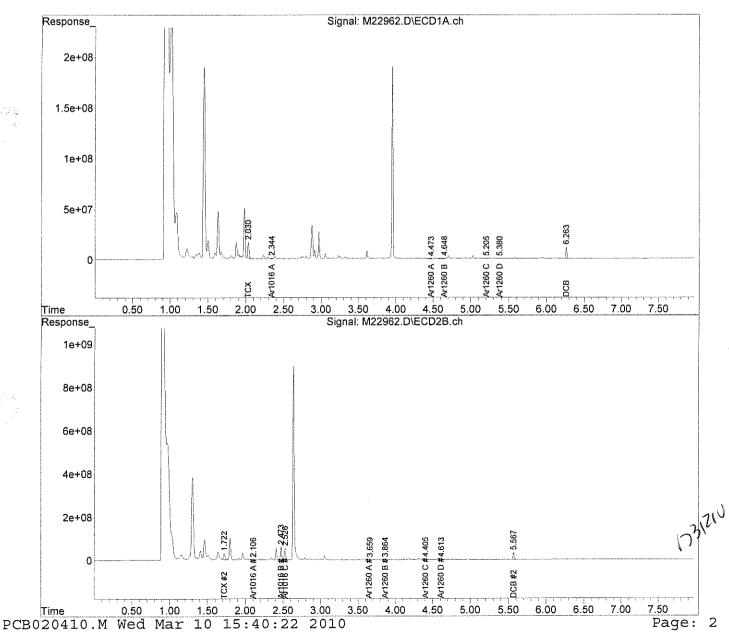
Signal #1 Phase :

Signal #1 Info

Signal #2 Phase:

Signal #2 Info :

03.11.17





CLIENT SAMPLE ID

Project Name:

Peabody Terrace

Project Number:

210980

Field Sample ID:

PTX-CWM-111302-0475

March 11, 2010

### SAMPLE DATA

Lab Sample ID:

65979-56 RR

Matrix:

Wipe

Percent Solid:

N/A

**Dilution Factor:** 

1.0

**Collection Date:** 

03/02/10

Lab Receipt Date:

03/03/10

**Extraction Date:** 

03/05/10

**Analysis Date:** 

03/09/10

| PCB ANALYTICAL RES | ULTS |
|--------------------|------|
|--------------------|------|

| COMPOUND | Quantitation<br>Limit µg/wipe | Results $\mu$ g/wipe |
|----------|-------------------------------|----------------------|
| PCB-1016 | 0.5                           | U                    |
| PCB-1221 | 0.5                           | U                    |
| PCB-1232 | 0.5                           | U                    |
| PCB-1242 | 0.5                           | U                    |
| PCB-1248 | 0.5                           | U                    |
| PCB-1254 | 0.5                           | U                    |
| PCB-1260 | 0.5                           | U                    |
|          |                               |                      |

### Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene

102 %

Decachlorobiphenyl

78 %

J=Estimated E=Exceeds Calibration Range B=Detected in U=Undetected

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report

Authorized signature Mullill

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\030910-M\

Data File: M22963.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

9 Mar 2010 10:50 pm Acq On

Operator : JK

EC

65979-56,RR,,A/C Sample

Misc : SOIL

Sample Multiplier: 1 ALS Vial : 37

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 10 15:40:54 2010

Quant Method: C:\msdchem\1\METHODS\PCB020410.M

Quant Title : Aroclor 1016/1260

QLast Update : Thu Feb 04 11:18:55 2010

Response via : Initial Calibration

Integrator: ChemStation

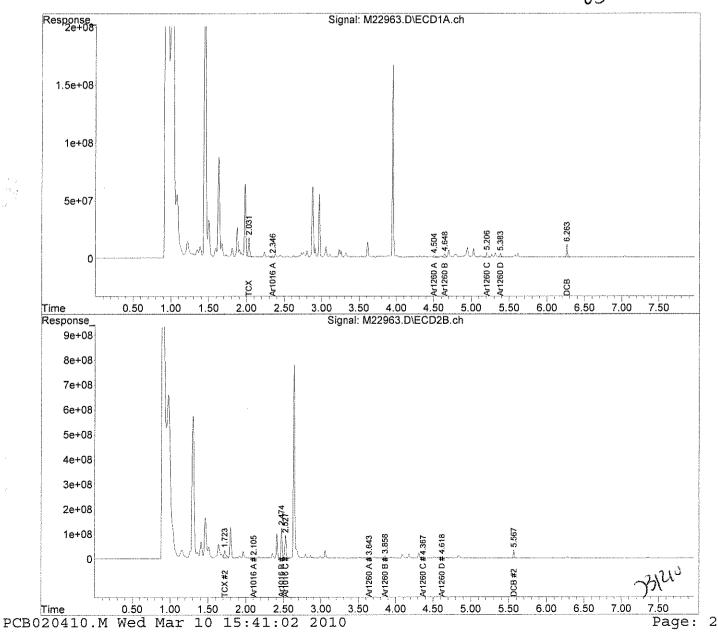
Volume Inj.

Signal #1 Phase : Signal #1 Info

Signal #2 Phase:

Signal #2 Info:

03.11.10



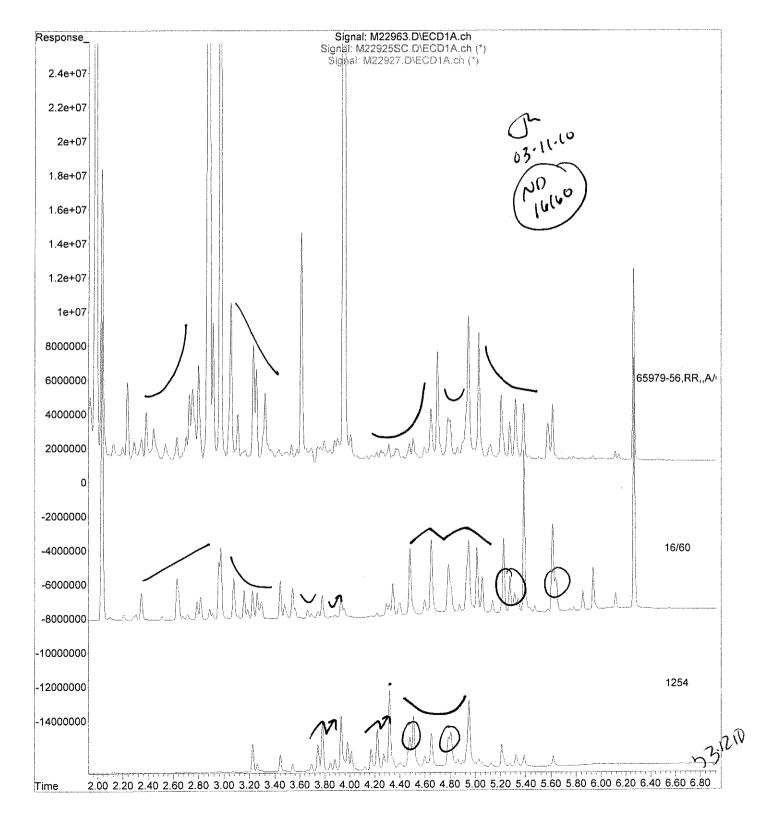
File :C:\msdchem\1\DATA\030910-M\M22963.D

Operator : JK

Acquired : 9 Mar 2010 10:50 pm using AcqMethod PCB.M

Instrument : Instrument M
Sample Name: 65979-56,RR,,A/C

Misc Info : SOIL Vial Number: 37





CLIENT SAMPLE ID

Project Name:

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

PTX-CWW-111302-0476

March 11, 2010

#### SAMPLE DATA

Lab Sample ID:

65979-57 RR

Matrix:

Wipe

Percent Solid:

N/A

**Dilution Factor:** 

1.0

**Collection Date:** 

03/02/10

Lab Receipt Date:

03/03/10

**Extraction Date:** 

03/05/10

Analysis Date:

03/09/10

| PCB ANALYTICAL RESULTS      |                                 |                    |  |
|-----------------------------|---------------------------------|--------------------|--|
| COMPOUND                    | Quantitation Limit $\mu$ g/wipe | Results<br>μg/wipe |  |
| PCB-1016                    | 0.5                             | U                  |  |
| PCB-1221                    | 0.5                             | U                  |  |
| PCB-1232                    | 0.5                             | U                  |  |
| PCB-1242                    | 0.5                             | Ŭ                  |  |
| PCB-1248                    | 0.5                             | U                  |  |
| PCB-1254                    | 0.5                             | U                  |  |
| PCB-1260                    | 0.5                             | U                  |  |
|                             |                                 |                    |  |
|                             |                                 |                    |  |
| Surrogate Standard Recovery |                                 |                    |  |

104 %

2,4,5,6-Tetrachloro-m-xylene Decachlorobiphenyl

81 %

U=Undetected J=Estimated E=Exceeds Calibration Range

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\030910-M\

Data File: M22964.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 9 Mar 2010 11:00 pm

Operator : JK

20°

Sample : 65979-57,RR,,A/C

Misc : SOIL

ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e

Quant Time: Mar 10 15:41:52 2010

Quant Method : C:\msdchem\1\METHODS\PCB020410.M

Quant Title : Aroclor 1016/1260

QLast Update : Thu Feb 04 11:18:55 2010

Response via : Initial Calibration

Integrator: ChemStation

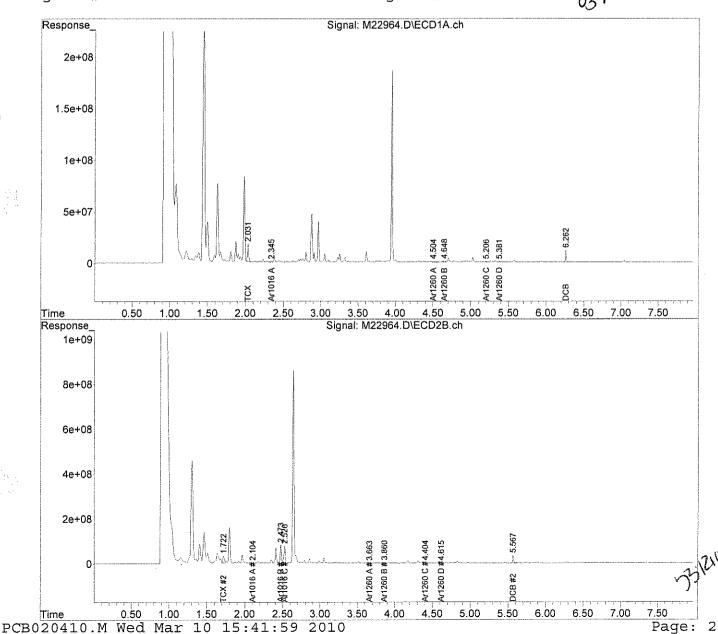
Volume Inj.

Signal #1 Phase : Signal #1 Info :

Signal #2 Phase:

Signal #2 Info :

03.11.10



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### **CLIENT SAMPLE ID**

**Project Name:** 

Peabody Terrace

Project Number:

210980

Field Sample ID:

PTX-CWT-111302-0477

March 11, 2010

#### SAMPLE DATA

Lab Sample ID:

65979-58 RR

Matrix:

Wipe

Percent Solid:

N/A

Dilution Factor:

1.0

**Collection Date:** 

03/02/10

Lab Receipt Date:

03/03/10

**Extraction Date:** 

03/05/10

**Analysis Date:** 

03/09/10

| PCB ANALYTICAL RESULTS |                                                       |                                       |  |  |
|------------------------|-------------------------------------------------------|---------------------------------------|--|--|
| COMPOUND               | Quantitation<br>Limit $\mu$ g/wipe                    | Results<br>μg/wipe                    |  |  |
| PCB-1016               | 0.5                                                   | U                                     |  |  |
| PCB-1221               | 0.5                                                   | U                                     |  |  |
| PCB-1232               | 0.5                                                   | U .                                   |  |  |
| PCB-1242               | 0.5                                                   | U                                     |  |  |
| PCB-1248               | 0.5                                                   | U                                     |  |  |
| PCB-1254               | 0.5                                                   | U                                     |  |  |
| PCB-1260               | 0.5                                                   | U                                     |  |  |
|                        |                                                       |                                       |  |  |
|                        |                                                       | · · · · · · · · · · · · · · · · · · · |  |  |
|                        | Surrogate Standard Recovery                           |                                       |  |  |
|                        | 2,4,5,6-Tetrachloro-m-xylene 89 Decachlorobiphenyl 81 | %<br>%                                |  |  |
| U=Undetected           | J=Estimated E=Exceeds Calibration Range               | B=Detected in                         |  |  |

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report

#### (OT Reviewed) Quantitation Report

Data Path : C:\msdchem\1\DATA\030910-M\

Data File: M22965.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

9 Mar 2010 11:10 pm Acq On

Operator : JK

D

65979-58,RR,,A/C Sample

Misc SOIL

ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 10 15:42:49 2010

Quant Method: C:\msdchem\1\METHODS\PCB020410.M

Quant Title : Aroclor 1016/1260

QLast Update : Thu Feb 04 11:18:55 2010 Response via : Initial Calibration

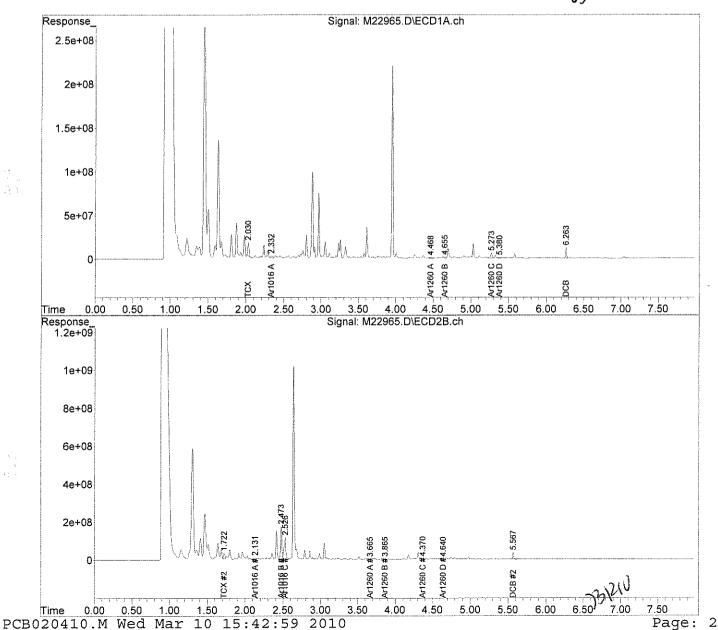
Integrator: ChemStation

Volume Inj.

Signal #1 Phase : Signal #1 Info

Signal #2 Phase:

Signal #2 Info :





#### CLIENT SAMPLE ID

**Project Name:** 

Peabody Terrace

**Project Number:** 

210980

Field Sample ID:

PTX-CWM-111302-0478

March 11, 2010

## SAMPLE DATA

Lab Sample ID:

65979-59 RR

Matrix:

Wipe

Percent Solid:

N/A

**Dilution Factor:** 

1.0

Collection Date:

03/02/10

Lab Receipt Date:

03/03/10

**Extraction Date:** 

03/05/10

Analysis Date:

03/09/10

| COMPOUND | Quantitation Limit $\mu$ g/wipe | Results $\mu g/wipe$ |
|----------|---------------------------------|----------------------|
| PCB-1016 | 0.5                             | U                    |
| PCB-1221 | 0.5                             | U                    |
| PCB-1232 | 0.5                             | U                    |
| PCB-1242 | 0.5                             | U                    |
| PCB-1248 | 0.5                             | U                    |
| PCB-1254 | 0.5                             | U                    |
| PCB-1260 | 0.5                             | U                    |
|          |                                 |                      |
|          |                                 |                      |

101 %

2,4,5,6-Tetrachloro-m-xylene Decachlorobiphenyl

81 %

J=Estimated E=Exceeds Calibration Range U=Undetected

B=Detected in

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report



# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\030910-M\

Data File: M22966.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 9 Mar 2010 11:20 pm

Operator : JK

Ë

Sample : 65979-59, RR, , A/C

Misc : SOIL

ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: events.e Integration File signal 2: events2.e

Quant Time: Mar 10 15:43:31 2010

Quant Method : C:\msdchem\1\METHODS\PCB020410.M

Quant Title : Aroclor 1016/1260

QLast Update : Thu Feb 04 11:18:55 2010

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj.

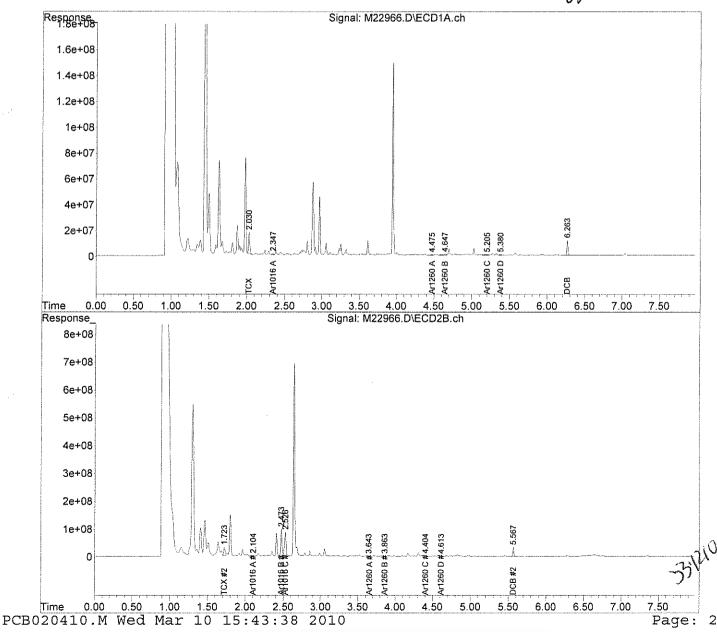
Signal #1 Info

Signal #1 Phase :

Signal #2 Phase:

Signal #2 Info :

02.11.12





Ms. Amy Wallace Woodard & Curran 35 NE Business Center Suite 180 Andover MA 01810

### CLIENT SAMPLE ID

Project Name:

Peabody Terrace

Project Number:

210980

Field Sample ID:

PTC-CBKQ-1332-0479

March 10, 2010

# SAMPLE DATA

Lab Sample ID:

65979-60

Matrix:

Aqueous

Percent Solid:

N/A 1.0

**Dilution Factor:** 

**Collection Date:** Lab Receipt Date:

03/02/10 03/03/10

**Extraction Date:** 

03/08/10

**Analysis Date:** 

03/08/10

|                     | PCB ANALYTICAL RESU                                   | LTS    |                 |
|---------------------|-------------------------------------------------------|--------|-----------------|
| COMPOUND            | Quantitation Limit $\mu$ g/L                          |        | Results<br>μg/L |
| PCB-1016            | 0.2                                                   |        | U               |
| PCB-1221            | 0.2                                                   |        | U               |
| PCB-1232            | 0.2                                                   |        | U               |
| PCB-1242            | 0.2                                                   |        | U               |
| PCB-1248            | 0.2                                                   |        | U               |
| PCB-1254            | 0.2                                                   |        | U               |
| PCB-1260            | 0.2                                                   |        | U               |
|                     |                                                       |        |                 |
|                     | Surrogate Standard Recovery                           |        |                 |
|                     | 2,4,5,6-Tetrachloro-m-xylene 81 Decachlorobiphenyl 52 | %<br>% |                 |
| III fa data - + - 3 | I=Estimated E=Exceeds Calibration Rang                |        |                 |

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

COMMENTS:

PCB Report

33910

Data Path : C:\msdchem\1\DATA\030810-L\

Data File : L15825.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 8 Mar 10 4:21 pm

Operator : MG

Sample : 65979-60

Misc

ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e

Quant Time: Mar 08 22:34:32 2010

Quant Method: C:\msdchem\1\METHODS\PB030210.M

Quant Title : Aroclor 1016/1260

QLast Update : Wed Mar 03 10:27:55 2010

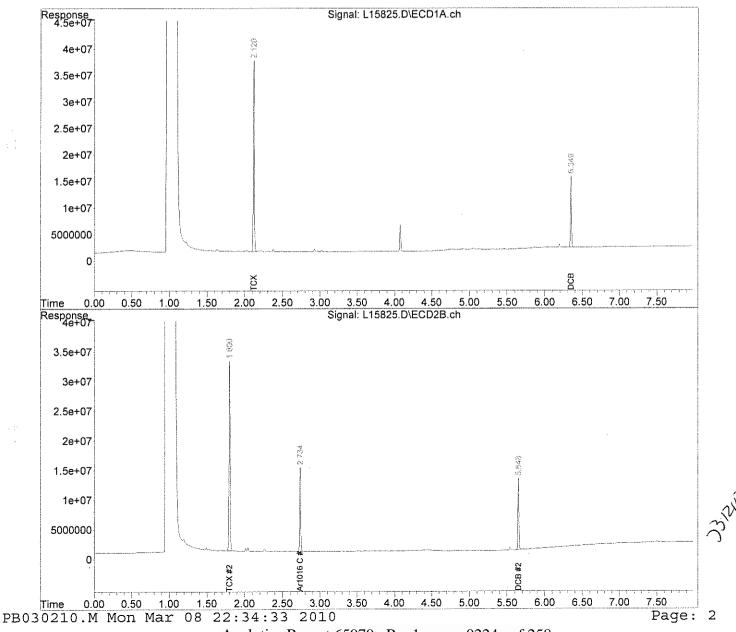
Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 3 ul

Signal #1 Phase : DB-1701 Widebore Signal #2 Phase: DB-5 Widebore

Signal #1 Info : 0.53 mm , 1.0um f Signal #2 Info : 0.53 mm, 1.5um film



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Ms. Amy Wallace Woodard & Curran 35 NE Business Center Suite 180 Andover MA 01810

CLIENT SAMPLE ID

Project Name:

Peabody Terrace

Project Number:

210980

Field Sample ID:

PTX-CBK-111302-0480

March 12, 2010

SAMPLE DATA

Lab Sample ID:

65979-61

Matrix:

Solid

Percent Solid:

99

Dilution Factor:

50439

Collection Date:

03/02/10

Lab Receipt Date:

03/03/10

**Extraction Date:** 

03/05/10

**Analysis Date:** 

03/11/10

| PCB ANALYTICAL RESULTS                        |                                                                                                                               |  |  |  |  |  |  |
|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|
| Quantitation<br>Limit μg/kg                   | Results<br>μg/kg                                                                                                              |  |  |  |  |  |  |
| 1664000                                       | U                                                                                                                             |  |  |  |  |  |  |
| 1664000                                       | U                                                                                                                             |  |  |  |  |  |  |
| 1664000                                       | U                                                                                                                             |  |  |  |  |  |  |
| 1664000                                       | U                                                                                                                             |  |  |  |  |  |  |
| 1664000                                       | U                                                                                                                             |  |  |  |  |  |  |
| 1664000                                       | 23000000                                                                                                                      |  |  |  |  |  |  |
| 1664000                                       | U                                                                                                                             |  |  |  |  |  |  |
| ·                                             |                                                                                                                               |  |  |  |  |  |  |
|                                               |                                                                                                                               |  |  |  |  |  |  |
| Surrogate Standard Recovery                   |                                                                                                                               |  |  |  |  |  |  |
| Fetrachloro-m-xylene * % cachlorobiphenyl * % |                                                                                                                               |  |  |  |  |  |  |
|                                               | Quantitation Limit \( \mu g / \kg \)  1664000  1664000  1664000  1664000  1664000  1664000  1664000  Tetrachloro-m-xylene * % |  |  |  |  |  |  |

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

Results are expressed on a dry weight basis.

\* The surrogates were diluted out.

PCB Report

Authorized signature ### Authorized signature

# PCB COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M

SDG: 65979

GC Column #1: STX-CLPesticides I

Sample: 65979-61,5000X,,A/C

Column ID: 0.25 mm

Data File: M22994.D

GC Column #2: STX-CLPesticides II

Dilution Factor: 50438.8

Column ID: 0.25 mm

Column #1

Column #2

| COMPOUND | SAMPLE RESULT (ug/kg) | SAMPLE RESULT (ug/kg) | RPD | # |
|----------|-----------------------|-----------------------|-----|---|
| PCB 1254 | 22349327              | 22950835              | 2.7 |   |

# Column to be used to flag RPD values greater than QC limit of 40%

\* Values outside QC limits

| Comments: |  |  |
|-----------|--|--|
|           |  |  |

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\031110-M\

Data File: M22994.D

Signal(s): Signal #1: ECD1A.ch Signal #2: ECD2B.ch

Acq On : 11 Mar 2010 11:22 am

Operator : JK

Sample : 65979-61,5000X,,A/C

Misc : SOIL

ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e

Quant Time: Mar 11 13:24:08 2010

Quant Method : C:\msdchem\1\METHODS\54SP020410.M

Quant Title :

QLast Update : Fri Feb 05 08:08:17 2010

Response via : Initial Calibration

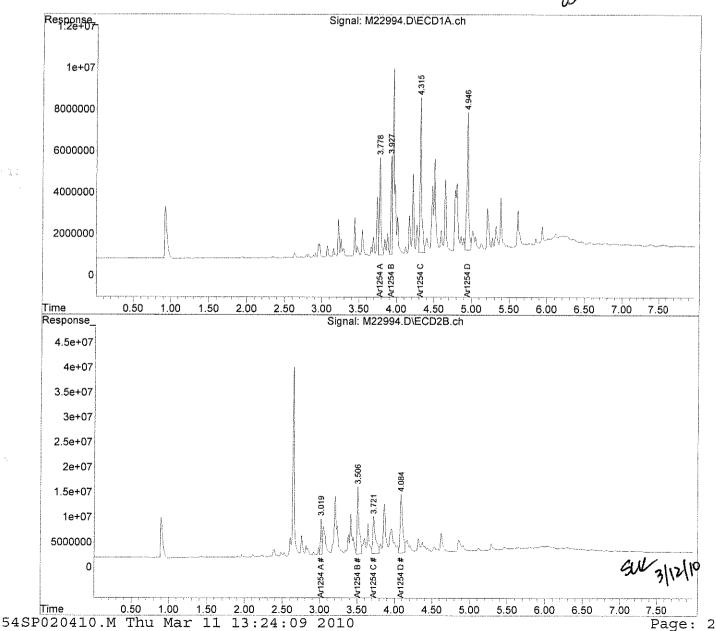
Integrator: ChemStation

Volume Inj.

Signal #1 Phase :
Signal #1 Info :

Signal #2 Phase:
Signal #2 Info :

02.1.10



File :C:\msdchem\1\DATA\031110-M\M22994.D

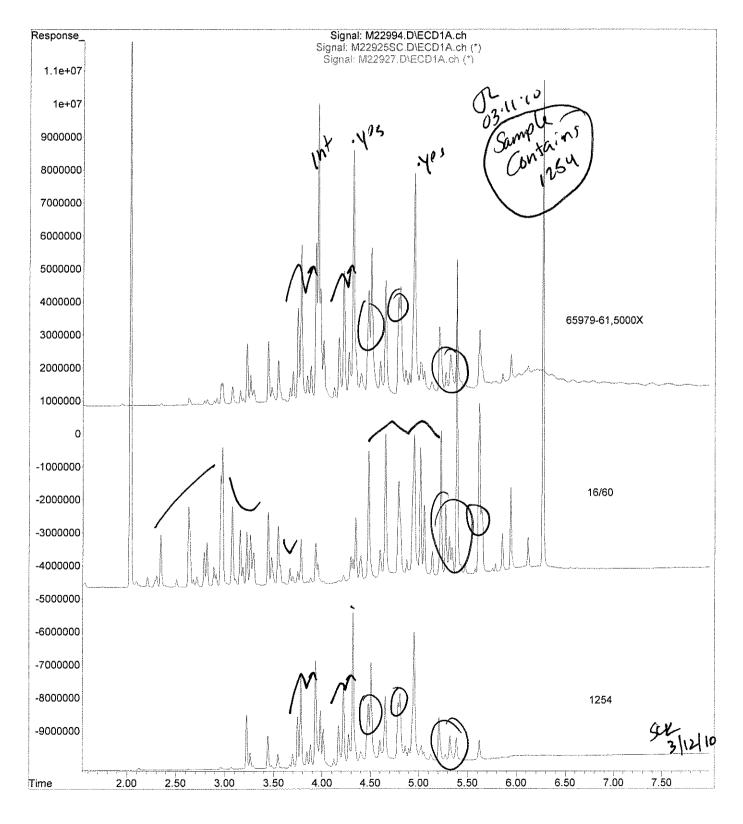
Operator : JK

Acquired : 11 Mar 2010 11:22 am using AcqMethod PCB.M

Instrument: Instrument M

Sample Name: 65979-61,5000X,,A/C

Misc Info : SOIL Vial Number: 10





# PCB QC FORMS

Instrument ID: M

GC Column #1: STX-CLPesticides I

SDG:

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

|              | Column #1 |   |           | Column #2 |           |          |           |   |
|--------------|-----------|---|-----------|-----------|-----------|----------|-----------|---|
| SAMPLE ID    | SMC 1 (%) | # | SMC 2 (%) | #         | SMC 1 (%) | #        | SMC 2 (%) | # |
| B030310PSOX  | 90        |   | 66        |           | 90        | <u> </u> | 59        |   |
| L030310PSOX  | 91        |   | 66        |           | 93        |          | 63        |   |
| LD030310PSOX | 96        |   | 70        |           | 97        |          | 66        |   |
|              |           |   |           |           |           |          |           |   |
|              |           |   |           |           |           |          |           |   |
|              |           |   |           |           |           |          |           |   |
|              |           |   |           |           |           |          |           |   |
|              |           |   |           |           |           |          |           |   |
|              |           |   |           |           |           |          |           |   |
|              |           |   |           |           |           |          |           |   |
|              |           |   |           |           |           |          |           |   |
|              |           |   |           |           |           |          |           |   |
|              |           |   |           |           |           |          |           |   |
|              |           |   |           |           |           |          |           |   |
|              |           |   |           |           | <u> </u>  |          |           |   |
|              |           |   |           |           |           |          |           |   |
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|              |           |   |           |           |           |          |           |   |
|              |           |   |           |           |           |          |           |   |
|              |           |   |           |           |           |          |           |   |
|              |           |   |           |           |           |          |           |   |
|              |           |   |           |           |           |          |           |   |
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|              |           |   |           |           |           |          |           |   |
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|              |           |   |           |           |           |          |           |   |
|              |           |   |           |           |           |          |           |   |
|              |           |   |           |           |           |          |           |   |
|              |           |   |           |           |           |          |           |   |
|              |           |   |           |           |           |          |           |   |
|              |           |   |           |           |           |          |           |   |
|              |           |   |           |           |           |          |           |   |
|              |           |   |           |           |           |          |           |   |
|              |           |   |           |           |           |          |           |   |
|              |           |   |           |           |           |          |           |   |
|              |           |   |           |           |           |          |           |   |
|              | +         |   |           |           |           |          |           |   |
|              |           |   |           |           |           |          |           |   |
|              |           |   |           |           |           |          |           |   |
|              |           |   | L         |           | <u> </u>  |          | L         |   |

|              | Lower | Upper |
|--------------|-------|-------|
|              | Limit | Limit |
| SMC #I = TCX | 40    | 130   |
| SMC #2 = DCB | 40    | 130   |

- # Column to be used to flag recovery values outside of QC limits
- \* Values outside QC limits
- D System Monitoring Compound diluted out

# PCB FORM 2 Analytics Report 65979\_ Rev1 page 0230 of 258

Instrument ID: M

GC Column #1: STX-CLPesticides I

SDG: 65979

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

|                                       | Column #I |              |           | Column #2 |           |          |           |   |
|---------------------------------------|-----------|--------------|-----------|-----------|-----------|----------|-----------|---|
| SAMPLE ID                             | SMC 1 (%) | #            | SMC 2 (%) | #         | SMC I (%) | #        | SMC 2 (%) | # |
| B020810PAS,RR2,,A/C                   | 87        |              | 69        |           | 78        |          | 63        |   |
| 65979-1,1:50                          | D         |              | D         |           | D         |          | D         |   |
| <b>y</b>                              |           |              |           |           |           |          |           |   |
|                                       |           | <b></b>      |           |           |           |          |           |   |
|                                       |           |              |           |           |           |          |           |   |
|                                       |           |              | <u> </u>  | <b></b>   |           |          |           |   |
|                                       |           |              |           |           |           |          |           |   |
|                                       |           |              |           |           |           | <b> </b> |           |   |
|                                       |           |              |           |           | <b></b>   |          |           |   |
|                                       |           | <del> </del> | 1         |           |           |          |           |   |
|                                       |           |              |           |           |           |          |           |   |
|                                       |           |              |           |           |           |          |           |   |
|                                       |           |              |           |           |           | ļ        |           |   |
|                                       |           |              |           |           |           |          |           |   |
|                                       |           |              |           |           |           |          |           |   |
|                                       |           |              |           |           |           |          |           |   |
|                                       |           |              |           |           |           |          |           |   |
|                                       |           |              |           |           |           |          |           |   |
|                                       |           |              |           |           |           |          |           |   |
|                                       |           |              |           |           |           |          |           |   |
|                                       |           |              |           |           |           |          |           |   |
|                                       |           |              |           |           |           |          |           |   |
|                                       |           |              |           |           |           |          |           |   |
|                                       |           |              |           |           |           |          |           |   |
|                                       |           |              | ,         |           |           |          |           |   |
|                                       |           |              |           |           |           |          |           |   |
|                                       |           |              |           |           |           |          |           |   |
|                                       |           |              |           |           |           |          |           |   |
|                                       |           |              |           |           |           |          |           |   |
|                                       |           |              |           |           |           |          |           |   |
|                                       |           |              |           |           |           |          |           |   |
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|                                       |           |              |           |           |           |          |           |   |
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|                                       |           |              |           |           |           |          |           |   |
|                                       |           |              |           |           |           |          |           |   |
|                                       |           |              |           |           |           |          |           |   |
|                                       |           |              |           |           |           |          |           |   |
|                                       |           |              |           |           |           |          |           |   |
|                                       |           |              |           |           |           |          |           |   |
|                                       |           |              |           |           |           |          |           |   |

|              | Lower | Upper |
|--------------|-------|-------|
|              | Limit | Limit |
| SMC #1 = TCX | 40    | 130   |
| SMC #2 = DCB | 40    | 130   |

- # Column to be used to flag recovery values outside of QC limits
- \* Values outside QC limits
- D System Monitoring Compound diluted out

PCB FORM 2
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SDG: 65979

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

|                                        | Column #1 |   |           | Column #2 |           |   |           |   |
|----------------------------------------|-----------|---|-----------|-----------|-----------|---|-----------|---|
| SAMPLE ID                              | SMC 1 (%) | # | SMC 2 (%) | #         | SMC 1 (%) | # | SMC 2 (%) | # |
| B030510PSOX                            | 98        |   | 75        |           | 96        |   | 73        |   |
| L030510PSOX                            | 98        |   | 75        |           | 95        |   | 74        |   |
| LD030510PSOX                           | 98        |   | 68        |           | 97        |   | 74        |   |
| 65979-2                                | 103       |   | 72        |           | 100       |   | 80        |   |
| 65979-3                                | 97        |   | 59        |           | 93        |   | 76        |   |
| 65979-4                                | 94        |   | 74        |           | 90        |   | 74        |   |
| 65979-4,MS                             | 98        |   | 76        |           | 96        |   | 77        |   |
| 65979-4,MSD                            | 93        |   | 76        |           | 92        |   | 75        |   |
|                                        |           |   |           |           |           |   |           |   |
|                                        |           |   |           |           |           |   |           |   |
|                                        |           |   |           |           |           |   |           |   |
|                                        |           |   |           |           |           |   |           |   |
|                                        |           |   |           |           |           |   |           |   |
|                                        |           |   |           |           |           |   |           | • |
|                                        |           |   |           |           |           |   |           |   |
|                                        |           |   |           |           |           |   |           |   |
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|                                        |           |   |           |           |           |   |           |   |
|                                        |           |   |           |           |           |   |           |   |
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|                                        |           |   |           |           |           |   |           |   |
|                                        |           |   |           |           |           |   |           |   |
|                                        |           |   |           |           |           |   |           |   |
|                                        |           |   |           |           |           |   |           |   |
|                                        |           |   |           |           |           |   |           |   |
|                                        |           |   |           |           |           |   |           |   |
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|                                        |           |   |           |           |           |   |           |   |
|                                        |           |   |           |           |           |   |           |   |
|                                        |           |   |           |           |           |   |           |   |
|                                        |           |   |           |           |           |   |           |   |

|              | Lower<br>Limit | Upper<br>Limit |
|--------------|----------------|----------------|
| SMC #1 = TCX | 40             | 130            |
| SMC #2 = DCB | 40             | 130            |

- # Column to be used to flag recovery values outside of QC limits
- \* Values outside QC limits
- D System Monitoring Compound diluted out

# PCB FORM 2 Analytics Report 65979\_ Rev1 page 0232 of 258

SDG: 65979

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

|                | Column #1 |   | Column #2 |                                         |           |          |           |   |
|----------------|-----------|---|-----------|-----------------------------------------|-----------|----------|-----------|---|
| SAMPLE ID      | SMC 1 (%) | # | SMC 2 (%) | #                                       | SMC 1 (%) | #        | SMC 2 (%) | # |
| B030510PSOX,RR | 94        |   | 73        |                                         | 98        |          | 76        |   |
| 65979-6        | 94        |   | 66        |                                         | 93        |          | 72        |   |
| 65979-7        | 95        |   | 74        |                                         | 91        |          | 75        |   |
| 65979-13       | 97        |   | 76        |                                         | 98        | <u> </u> | 77        |   |
| 65979-14       | 98        |   | 65        |                                         | 94        |          | 80        |   |
| 65979-15       | 92        |   | 75        |                                         | 90        |          | 77        |   |
| 65979-30       | 96        |   | 79        |                                         | 95        |          | 78        |   |
| 65979-31       | 96        |   | 79        |                                         | 91        |          | 80        |   |
| 65979-46       | 91        |   | 77        |                                         | 93        |          | 79        |   |
| 65979-47       | 90        |   | 75        |                                         | 94        |          | 76        |   |
|                |           |   |           |                                         |           | ,        |           |   |
|                |           |   |           |                                         |           |          |           |   |
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|              | Lower | Upper |
|--------------|-------|-------|
|              | Limit | Limit |
| SMC #1 = TCX | 40    | 130   |
| SMC #2 = DCB | 40    | 130   |

- # Column to be used to flag recovery values outside of QC limits
- \* Values outside QC limits
- D System Monitoring Compound diluted out

PCB FORM 2
Analytics Report 65979\_ Rev1 page 0233 of 258

# PCB AQUEOUS SYSTEM MONITORING COMPOUNDS SUMMARY

SDG: 65979

Instrument ID: L

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

|             |           | Column #1 |           |   | Column #2 |   |           |   |
|-------------|-----------|-----------|-----------|---|-----------|---|-----------|---|
| SAMPLE ID   | SMC 1 (%) | #         | SMC 2 (%) | # | SMC 1 (%) | # | SMC 2 (%) | # |
| B030810PW   | 69        |           | 53        |   | 73        |   | 58        |   |
| L030810PWB  | 77        |           | 48        |   | 81        |   | 52        |   |
| LD030810PWB | 56        |           | 31        | * | 58        |   | 35        | * |
| 65979-44    | 79        |           | 39        | * | 82        |   | 43        |   |
| 65979-60    | 81        |           | 52        |   | 84        |   | 55        |   |
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|              | Lower | Upper |
|--------------|-------|-------|
|              | Limit | Limit |
| SMC #1 = TCX | 46    | 122   |
| SMC #2 = DCB | 40    | 135   |

- # Column to be used to flag recovery values outside of QC limits
- \* Values outside QC limits
- D System Monitoring Compound diluted out

PCB FORM 2 Analytics Report 65979\_ Rev1 page 0234 of 258

Instrument ID: L

GC Column #1: STX-CLPesticides I

SDG:

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

|                                       | Column #1 |            |           | Column #2 |           |                                         |           |   |
|---------------------------------------|-----------|------------|-----------|-----------|-----------|-----------------------------------------|-----------|---|
| SAMPLE ID                             | SMC 1 (%) | #          | SMC 2 (%) | #         | SMC 1 (%) | #                                       | SMC 2 (%) | # |
| B030410PSOX,RR                        | 91        |            | 69        |           | 90        |                                         | 76        |   |
| L030410PSOX,RR                        | 87        |            | 67        |           | 86        |                                         | 72        |   |
| LD030410PSOX,RR                       | 89        |            | 69        |           | 89        |                                         | 74        |   |
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|              | Lower | Uppe  |
|--------------|-------|-------|
|              | Limit | Limit |
| SMC #1 = TCX | 40    | 130   |
| SMC #2 = DCB | 40    | 130   |

- # Column to be used to flag recovery values outside of QC limits
- \* Values outside QC limits
- D System Monitoring Compound diluted out

# PCB FORM 2 Analytics Report 65979\_ Rev1 page 0235 of 258

Instrument ID: L

GC Column #1: STX-CLPesticides I

SDG:

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

|                                         |           | Column #1 |           | Column #2                               |           |   |           |   |
|-----------------------------------------|-----------|-----------|-----------|-----------------------------------------|-----------|---|-----------|---|
| SAMPLE ID                               | SMC 1 (%) | #         | SMC 2 (%) | #                                       | SMC 1 (%) | # | SMC 2 (%) | # |
| B030810PW,RR                            | 65        |           | 52        | ,                                       | 67        |   | 89        |   |
| 65979-16                                | 86        |           | 60        |                                         | 89        |   | 64        |   |
| 65979-17                                | 86        |           | 60        |                                         | 90        |   | 65        |   |
| 65979-18                                | 87        |           | 62        |                                         | 88        |   | 69        |   |
| 65979-19                                | 91        |           | 66        |                                         | 92        |   | 70        |   |
| 65979-20                                | 89        |           | 66        |                                         | 92        |   | 69        |   |
| 65979-23                                | 90        |           | 67        |                                         | 90        |   | 71        |   |
| 65979-24                                | 87        |           | 67        |                                         | 89        |   | 68        |   |
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|                | Lower | Upper |
|----------------|-------|-------|
|                | Limit | Limit |
| SMC $#1 = TCX$ | 40    | 130   |
| SMC #2 = DCB   | 40    | 130   |

- # Column to be used to flag recovery values outside of QC limits
- \* Values outside QC limits
- D System Monitoring Compound diluted out

Instrument ID: L

GC Column #1: STX-CLPesticides I

SDG:

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

|                 |           | Column #1 |           |       | Column #2 |   |           |   |
|-----------------|-----------|-----------|-----------|-------|-----------|---|-----------|---|
| SAMPLE ID       | SMC 1 (%) | #         | SMC 2 (%) | #     | SMC 1 (%) | # | SMC 2 (%) | # |
| B030810PW,RR2   | 65        |           | 53        |       | 67        |   | 97        |   |
| 65979-9,1:5     | 78        |           | 54        |       | 84        |   | 63        |   |
| 65979-11, 1:5   | 82        |           | 59        |       | 86        |   | 67        |   |
| 65979-25, 1:10  | 87        |           | 60        | ***** | 70        |   | 83        |   |
| 65979-22, 1:20  | D         |           | D         |       | D         |   | D         |   |
| 65979-10, 1:500 | D /       |           | D /       |       | D         |   | D         |   |
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|              | Lower | Upper |
|--------------|-------|-------|
|              | Limit | Limit |
| SMC #1 = TCX | 40    | 130   |
| SMC #2 = DCB | 40    | 130   |

- # Column to be used to flag recovery values outside of QC limits
- \* Values outside QC limits
- D System Monitoring Compound diluted out

SDG: 65979

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

|                                         |           | Columi | n #1      |   |           | Colum | n #2      |   |
|-----------------------------------------|-----------|--------|-----------|---|-----------|-------|-----------|---|
| SAMPLE ID                               | SMC 1 (%) | #      | SMC 2 (%) | # | SMC 1 (%) | #     | SMC 2 (%) | # |
| B030410PSOX2,RR,,A/0                    | 102       |        | 82        |   | 99        |       | 90        |   |
| L030410PSOX2,RR,,A/0                    |           |        | 86        |   | 106       |       | 95        |   |
| LD030410PSOX2,RR,,A                     |           |        | 78        |   | 93        |       | 81        |   |
| 65979-26,RR,,A/C                        | 91        |        | 80        |   | 102       |       | 80        |   |
| 65979-27,RR,,A/C                        | 103       |        | 85        |   | 105       |       | 85        |   |
| 65979-28,RR,,A/C                        | 101       |        | 89        |   | 113       |       | 91        |   |
| 65979-34,RR,,A/C                        | 94        |        | 82        |   | 92        |       | 82        |   |
| 65979-35,RR,,A/C                        | 86        |        | 77        |   | 93        |       | 84        |   |
| 65979-36,RR,,A/C                        | 94        |        | 81        |   | 100       |       | 85        |   |
| 65979-32,50X,,A/C                       | D         |        | D         |   | D         |       | D         |   |
| 65979-33,50X,,A/C                       | D         |        | D         |   | D         |       | D         |   |
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|              | Lower<br>Limit | Upper<br>Limit |
|--------------|----------------|----------------|
| SMC #1 = TCX | 40             | 130            |
| SMC #2 = DCB | 40             | 130            |

- # Column to be used to flag recovery values outside of QC limits
- \* Values outside QC limits
- D System Monitoring Compound diluted out

PCB FORM 2
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SDG: 65979

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

|                                         |           | Columi | n #1      | 4 | T         | Columi | n #2      |                                        |
|-----------------------------------------|-----------|--------|-----------|---|-----------|--------|-----------|----------------------------------------|
| SAMPLE ID                               | SMC 1 (%) | #      | SMC 2 (%) | # | SMC 1 (%) | #      | SMC 2 (%) | #                                      |
| B030410PSOX2,RR2,,A                     |           |        | 80        |   | 94        |        | 88        |                                        |
| 65979-37,RR,,A/C                        | 97        |        | 81        |   | 96        |        | 87        |                                        |
| 65979-38,RR,,A/C                        | 96        |        | 80        |   | 101       |        | 83        |                                        |
| 65979-39,RR,,A/C                        | 95        |        | 80        |   | 102       |        | 83        |                                        |
| 65979-40,RR,,A/C                        | 103       |        | 79        |   | 114       |        | 82        | ***************                        |
| 65979-41,RR,,A/C                        | 100       |        | 76        |   | 111       |        | 79        |                                        |
| 65979-42,RR,,A/C                        | 97        |        | 71        |   | 105       |        | 75        |                                        |
| 65979-48,50X,,A/C                       | D         |        | D         |   | D         |        | D         |                                        |
| 65979-5,200X,,A/C                       | D         |        | D         |   | D         |        | D         |                                        |
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|                | Lower<br>Limit | Upper<br>Limit |
|----------------|----------------|----------------|
| SMC $#1 = TCX$ | 40             | 130            |
| SMC #2 = DCB   | 40             | 130            |

- # Column to be used to flag recovery values outside of QC limits
- \* Values outside QC limits
- D System Monitoring Compound diluted out

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SDG: 65979

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

|                      |           | Colum | n #1      |   |           | Colum                                   | n #2      |                                         |
|----------------------|-----------|-------|-----------|---|-----------|-----------------------------------------|-----------|-----------------------------------------|
| SAMPLE ID            | SMC 1 (%) | #     | SMC 2 (%) | # | SMC 1 (%) | #                                       | SMC 2 (%) | #                                       |
| B030510PSOX2,RR,,A/0 |           |       | 80        |   | 95        |                                         | 87        | ·····                                   |
| L030510PSOX2,RR,,A/0 |           |       | 80        |   | 96        |                                         | 85        |                                         |
| LD030510PSOX2,RR,,A  |           |       | 80        |   | 95        |                                         | 85        |                                         |
| 65979-51,RR,,A/C     | 96        |       | 84        |   | 101       |                                         | 84        |                                         |
| 65979-52,RR,,A/C     | 87        |       | 77        |   | 92        |                                         | 83        |                                         |
| 65979-53,RR,,A/C     | 95        |       | 83        |   | 105       |                                         | 84        |                                         |
| 65979-54,RR,,A/C     | 95        |       | 80        |   | 107       |                                         | 82        |                                         |
| 65979-55,RR,,A/C     | 95        |       | 77        |   | 113       |                                         | 81        |                                         |
| 65979-56,RR,,A/C     | 102       |       | 78        |   | 122       |                                         | 80        |                                         |
| 65979-57,RR,,A/C     | 104       |       | 81        |   | 103       |                                         | 82        |                                         |
| 65979-58,RR,,A/C     | 89        |       | 81        |   | 103       |                                         | 87        |                                         |
| 65979-59,RR,,A/C     | 101       |       | 81        |   | 97        |                                         | 81        | *************************************** |
| 65979-50,5X,,A/C     | 101       |       | 95        |   | 98        |                                         | 95        |                                         |
| 65979-49,100X,,A/C   | D         |       | D         |   | D         |                                         | D         |                                         |
|                      |           |       |           |   |           |                                         |           |                                         |
|                      |           |       |           |   |           |                                         |           |                                         |
|                      |           |       |           |   |           |                                         |           |                                         |
|                      |           |       |           |   |           |                                         |           |                                         |
|                      |           |       |           |   |           |                                         |           |                                         |
|                      |           |       | ,         |   |           | *************************************** |           |                                         |
|                      |           |       |           |   | -         |                                         |           |                                         |
|                      |           |       |           |   |           |                                         |           |                                         |
|                      |           |       |           |   |           |                                         |           |                                         |
|                      |           |       |           |   |           |                                         |           |                                         |
|                      |           |       |           |   |           |                                         |           |                                         |
|                      |           |       |           |   |           |                                         |           |                                         |
|                      |           |       |           |   |           |                                         |           |                                         |
|                      |           |       |           |   |           |                                         |           |                                         |
|                      |           |       |           |   |           |                                         |           |                                         |
|                      |           |       |           |   |           |                                         |           |                                         |
|                      |           |       |           |   |           |                                         | ·         |                                         |
|                      |           |       |           |   |           |                                         |           |                                         |
|                      |           |       |           |   |           |                                         |           |                                         |
|                      |           |       |           |   |           |                                         |           |                                         |
|                      |           |       |           |   | _         |                                         |           |                                         |
|                      |           |       |           |   |           |                                         |           |                                         |
|                      |           |       |           |   |           |                                         |           |                                         |
|                      |           |       |           |   |           |                                         |           |                                         |
|                      |           |       |           |   |           | •                                       |           |                                         |

|              | Lower | Upper |
|--------------|-------|-------|
|              | Limit | Limit |
| SMC #1 = TCX | 40    | 130   |
| SMC #2 = DCB | 40    | 130   |

- # Column to be used to flag recovery values outside of QC limits
- \* Values outside QC limits
- D System Monitoring Compound diluted out

PCB FORM 2
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Instrument ID: L

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG: 65979

|                  |           | Columr | ı #1      |          |           | Column   | 1 #2      |   |
|------------------|-----------|--------|-----------|----------|-----------|----------|-----------|---|
| SAMPLE ID        | SMC 1 (%) | #      | SMC 2 (%) | #        | SMC 1 (%) | #        | SMC 2 (%) | # |
| B030910PSOX      | 87        |        | 65        |          | 88        |          | 68        |   |
| 65979-12, 1:5000 | D         |        | D         |          | D         |          | D         |   |
| 65979-8 1:40000  | D         |        | D         |          | D         |          | D         |   |
| 00000            |           |        |           |          |           |          |           |   |
|                  |           |        |           |          |           |          |           |   |
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|                  |           |        |           |          |           |          |           |   |
|                  |           |        |           |          |           |          |           |   |
|                  |           |        |           |          |           |          |           |   |
|                  |           |        |           |          |           |          |           |   |
|                  |           |        |           |          |           |          |           |   |
|                  |           |        |           |          |           |          |           |   |
|                  |           |        |           |          |           |          |           |   |
|                  |           |        |           |          |           |          |           |   |
|                  |           |        |           |          |           |          |           |   |
|                  |           |        |           |          |           |          |           |   |
|                  |           |        |           |          |           |          |           |   |
|                  |           |        |           |          |           |          |           |   |
|                  |           |        |           |          |           |          |           |   |
|                  |           |        |           |          |           |          |           |   |
|                  |           |        |           |          |           |          |           |   |
|                  |           |        |           |          |           |          |           |   |
|                  |           |        |           |          |           |          |           |   |
|                  |           |        |           |          |           |          |           |   |
|                  |           |        |           |          |           |          |           |   |
|                  |           |        |           |          |           |          |           |   |
|                  |           |        |           |          |           |          |           |   |
|                  |           |        |           |          |           |          |           |   |
|                  |           |        |           |          |           |          |           |   |
|                  |           |        |           |          |           |          |           |   |
|                  |           |        |           |          |           |          |           |   |
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|                  |           |        |           |          |           |          |           |   |
|                  |           |        |           |          |           |          |           |   |
|                  |           |        |           |          |           |          |           |   |
|                  |           |        |           | -        |           |          |           |   |
|                  |           |        |           |          |           |          |           |   |
|                  |           |        |           |          |           |          |           |   |
|                  |           |        |           |          |           |          |           |   |
|                  |           |        |           | <u> </u> |           | <u> </u> |           |   |

|              | Lower | Upper |
|--------------|-------|-------|
|              | Limit | Limit |
| SMC #1 = TCX | 40    | 130   |
| SMC #2 = DCB | 40    | 130   |

- # Column to be used to flag recovery values outside of QC limits
- \* Values outside QC limits
- D System Monitoring Compound diluted out

SDG: 65979

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

|                       |           | Colum | n #1      |   | T         | Colum | n #2      |   |
|-----------------------|-----------|-------|-----------|---|-----------|-------|-----------|---|
| SAMPLE ID             | SMC 1 (%) | #     | SMC 2 (%) | # | SMC 1 (%) | #     | SMC 2 (%) | # |
| B030510PSOX2,RR2,,A   |           |       | 83        |   | 103       |       | 83        |   |
| 65979-29,50000X,,A/C  | D         |       | D         |   | D         | l     | D         |   |
| 65979-43,5X,,A/C      | 114       |       | 70        |   | 121       |       | 97        |   |
| 65979-61,5000X,,A/C   | D         |       | D         |   | D         |       | D         |   |
| 65979-45,100X,RR,,A/C | D         |       | D         |   | D         |       | D         |   |
|                       |           |       |           |   |           |       |           |   |
|                       |           |       |           |   |           |       |           |   |
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|                       |           |       |           |   |           |       |           |   |
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|                       |           |       |           |   |           |       |           |   |
|                       |           |       |           |   |           |       |           |   |
|                       |           |       |           |   |           |       |           |   |
|                       |           |       | -         |   |           |       |           |   |
|                       |           |       |           |   |           |       |           |   |
|                       |           |       |           |   |           |       |           |   |
|                       |           |       |           |   |           |       |           |   |
|                       |           |       |           |   |           |       |           |   |
|                       |           | -     |           |   |           |       |           |   |
|                       |           |       |           |   |           |       |           |   |
|                       |           |       |           |   |           |       |           |   |
|                       |           |       |           |   |           |       |           |   |

|              | Lower<br>Limit | Upper<br>Limit |
|--------------|----------------|----------------|
| SMC #1 = TCX | 40             | 130            |
| SMC #2 = DCB | 40             | 130            |

- # Column to be used to flag recovery values outside of QC limits
- \* Values outside QC limits
- D System Monitoring Compound diluted out

PCB FORM 2
Analytics Report 65979\_ Rev1 page 0242 of 258

Instrument ID: M

GC Column #1: STX-CLPesticides I

SDG:

Column ID: 0.25 mm

Non-spiked sample: B030310PSOX

GC Column #2: STX-CLPesticides II

Spike: L030310PSOX

Column 1D: 0.25 mm

Spike duplicate: LD030310PSOX

|             | LCS SPIKE     | LCSD SPIKE    | LOWER | UPPER | R₽D   | NON-SPIKE      | SPIKE          | SPIKE |   | SPIKE DUP      | SPIKE DUP |   |     |   |
|-------------|---------------|---------------|-------|-------|-------|----------------|----------------|-------|---|----------------|-----------|---|-----|---|
| COMPOUND    | ADDED (ug/kg) | ADDED (ug/kg) | LIMIT | LIMIT | LIMIT | RESULT (ug/kg) | RESULT (ug/kg) | % REC | # | RESULT (ug/kg) | % REC     | # | RPD | # |
| PCB 1016    | 200           | 200           | 65    | 140   | 30    | 0              | 185            | 93    |   | 196            | 98        |   | 5.6 |   |
| PCB 1260    | 200           | 200           | 60    | 130   | 30    | 0              | 191            | 96    |   | 203            | 101       |   | 5.9 |   |
| PCB 1016 #2 | 200           | 200           | 65    | 140   | 30    | 0              | 189            | 95    |   | 201            | 100       |   | 6.0 |   |
| PCB 1260 #2 | 200           | 200           | 60    | 130   | 30    | 0              | 201            | 101   |   | 212            | 106       |   | 5.2 |   |

- # Column to be used to flag recovery and RPD values outside of QC limits
- \* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted.

| Comments: |      |  |          |  |
|-----------|------|--|----------|--|
|           | •    |  |          |  |
|           | <br> |  | <br>···· |  |

Instrument ID: M

GC Column #1: STX-CLPesticides I

SDG: 65979

Column ID: 0.25 mm

Non-spiked sample: B030510PSOX

GC Column #2: STX-CLPesticides II

Spike: L030510PSOX

Column ID: 0.25 mm

Spike duplicate: LD030510PSOX

|             | LCS SPIKE     | LCSD SPIKE    | LOWER | UPPER | RPD   | NON-SPIKE      | SPIKE          | SPIKE |   | SPIKE DUP      | SPIKE DUI | ) |      |   |
|-------------|---------------|---------------|-------|-------|-------|----------------|----------------|-------|---|----------------|-----------|---|------|---|
| COMPOUND    | ADDED (ug/kg) | ADDED (ug/kg) | LIMIT | LIMIT | LIMIT | RESULT (ug/kg) | RESULT (ug/kg) | % REC | Ħ | RESULT (ug/kg) | % REC     | # | RPD  | # |
| PCB 1016    | 200           | 200           | 65    | 140   | 30    | 0              | 216            | 108   |   | 222            | 111       |   | 2,6  |   |
| PCB 1260    | 200           | 200           | 60    | 130   | 30    | 0              | 203            | 101   |   | 203            | 102       |   | 0.1  |   |
| PCB 1016 #2 | 200           | 200           | 65    | 140   | 30    | 0              | 231            | 116   |   | 202            | 101       |   | 13,2 |   |
| PCB 1260 #2 | 200           | 200           | 60    | 130   | 30    | 0              | 199            | 99    |   | 201            | 101       |   | 1.0  |   |

# Column to be used to flag recovery and RPD values outside of QC limits

| ٠ | Values | outside | OC | limits |
|---|--------|---------|----|--------|

LCS/LCSD spike added values have been weight adjusted.

| Comments: |  |  |
|-----------|--|--|
|           |  |  |
|           |  |  |

### PCB SOIL MATRIX SPIKE/DUPLICATE PERCENT RECOVERY

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0,25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG: 65979

Non-spiked sample: 65979-4

Spike: 65979-4,MS

Spike duplicate: 65979-4,MSD

|             | MS SPIKE      | MSD SPIKE     | LOWER | UPPER | RPD   | NON-SPIKE      | SPIKE          | SPIKE |   | SPIKE DUP      | SPIKE DUP |   |     |
|-------------|---------------|---------------|-------|-------|-------|----------------|----------------|-------|---|----------------|-----------|---|-----|
| COMPOUND    | ADDED (ug/kg) | ADDED (ug/kg) | LIMIT | LIMIT | LIMIT | RESULT (ug/kg) | RESULT (ug/kg) | % REC | # | RESULT (ug/kg) | % REC     | # | RPD |
| PCB 1016    | 1914          | 1927          | 65    | 140   | 30    | 0              | 1779           | 93    |   | 1710           | 89        |   | 3.9 |
| PCB 1260    | 1914          | 1927          | 60    | 130   | 30    | 0              | 2100           | 110   |   | 2259           | 117       |   | 7,3 |
| PCB 1016 #2 | 1914          | 1927          | 65    | 140   | 30    | 0              | 1902           | 99    |   | 1794           | 93        | Ш | 5.8 |
| PCB 1260 #2 | 1914          | 1927          | 60    | 130   | 30    | 0              | 1973           | 103   |   | 2010           | 104       |   | 1,8 |

- # Column to be used to flag recovery and RPD values outside of QC limits
- \* Values outside QC limits

MS/MSD spike added values have been weight adjusted.

| Comments: |        |  |  |  |
|-----------|--------|--|--|--|
| `         | ······ |  |  |  |

### PCB AQUEOUS LABORATORY CONTROL/LABORATORY CONTROL DUPLICATE PERCENT RECOVERY

Instrument ID: L

GC Column #1: STX-CLPesticides 1

Column ID: 0.25 mm

SDG: Non-spiked sample: B030810PW

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

Spike duplicate: LD030810PWB

Spike: L030810PWB

|             | LCS SPIKE    | LCSD SPIKE   | LOWER | UPPER | RPD   | NON-SPIKE     | SPIKE         | SPIKE |   | SPIKE DUP     | SPIKE DUP |   |      |   |
|-------------|--------------|--------------|-------|-------|-------|---------------|---------------|-------|---|---------------|-----------|---|------|---|
| COMPOUND    | ADDED (ug/L) | ADDED (ug/L) | LIMIT | LIMIT | LIMIT | RESULT (ug/L) | RESULT (ug/L) | % REC | # | RESULT (ug/L) | % REC     | # | RPD  | # |
| PCB 1016    | 2.0          | 2,0          | 79    | 113   | 25    | 0,00          | 1.66          | 83    |   | 1,31          | 66        | * | 23.3 | Ш |
| PCB 1260    | 2.0          | 2.0          | 58    | 115   | 25    | 0.00          | 1.70          | 85    |   | 1.41          | 70        |   | 18.4 | Ш |
| PCB 1016#2  | 2.0          | 2.0          | 81    | 112   | 25    | 0.00          | 1,84          | 92    |   | I.41          | 70        | Ŀ | 26.4 | Ŀ |
| PCB 1260 #2 | 2.0          | 2.0          | 54    | 123   | 25    | 0.00          | 1.74          | 87    |   | 1,44          | 72        |   | 19.1 | Ш |

# Column to be used to flag recovery and RPD values outside of QC limits

\* Values outside QC limits

LCS/LCSD spike added values have been volume adjusted.

| Comments: |  |  | <br><u> </u> |
|-----------|--|--|--------------|
|           |  |  |              |
|           |  |  | <br>         |

Instrument ID: L

GC Column #1: STX-CLPesticides I

SDG:

Column ID: 0.25 mm

Non-spiked sample: B030410PSOX,RR

GC Column #2: STX-CLPesticides II

Spike: L030410PSOX,RR

Column ID: 0,25 mm

Spike duplicate: LD030410PSOX,RR

|             | LCS SPIKE     | LCSD SPIKE    | LOWER | UPPER | RPD   | NON-SPIKE      | SPIKE          | SPIKE |   | SPIKE DUP      | SPIKE DUP |   |      |   |
|-------------|---------------|---------------|-------|-------|-------|----------------|----------------|-------|---|----------------|-----------|---|------|---|
| COMPOUND    | ADDED (ug/kg) | ADDED (ug/kg) | LIMIT | LIMIT | LIMIT | RESULT (ug/kg) | RESULT (ug/kg) | % REC | # | RESULT (ug/kg) | % REC     | # | RPD  | # |
| PCB 1016    | 200           | 200           | 65    | 140   | 30    | 0              | 185            | 92    |   | 198            | 99        |   | 7.2  |   |
| PCB 1260    | 200           | 200           | 60    | 130   | 30    | 0              | 170            | 85    |   | 178            | 89        |   | 4.3  |   |
| PCB 1016 #2 | 200           | 200           | 65    | 140   | 30    | 0              | 187            | 94    |   | 216            | 108       |   | 14.4 |   |
| PCB 1260 #2 | 200           | 200           | 60    | 130   | 30    | 0              | 183            | 91    |   | 194            | 97        |   | 6.1  |   |

- # Column to be used to flag recovery and RPD values outside of QC limits
- \* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted.

| Comments: |  |
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|           |  |

Instrument ID: M

GC Column #1: STX-CLPesticides 1

SDG: 65979

Column ID: 0.25 mm

Non-spiked sample: B030410PSOX2,RR,,,A/C

GC Column #2: STX-CLPesticides II

Spike: L030410PSOX2,RR,,A/C

Column ID: 0.25 mm

Spike duplicate: LD030410PSOX2,RR,,A/C

|             | LCS SPIKE     | LCSD SPIKE    | LOWER | UPPER | ŘPD   | NON-SPIKE      | SPIKE          | SPIKE |   | SPIKE DUP      | SPIKE DUP |   |      |   |
|-------------|---------------|---------------|-------|-------|-------|----------------|----------------|-------|---|----------------|-----------|---|------|---|
| COMPOUND    | ADDED (ug/kg) | ADDED (ug/kg) | LIMIT | LIMIT | LIMIT | RESULT (ug/kg) | RESULT (ug/kg) | % REC | # | RESULT (ug/kg) | % REC     | # | RPD  | # |
| PCB 1016    | 200           | 200           | 65    | 140   | 30    | .0             | 268            | 134   |   | 199            | 99        | - | 29.6 | Ш |
| PCB 1260    | 200           | 200           | 60    | 130   | 30    | 0              | 218            | 109   |   | 226            | 113       |   | 3,4  |   |
| PCB 1016 #2 | 200           | 200           | 65    | 140   | 30    | 0              | 284            | 142   | * | 228            | 114       |   | 21.8 |   |
| PCB 1260 #2 | 200           | 200           | 60    | 130   | 30    | 0              | 267            | 134   | * | 234            | 117       |   | 13.2 |   |

- # Column to be used to flag recovery and RPD values outside of QC limits
- \* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted.

| Comments: |  |  |
|-----------|--|--|
|           |  |  |
|           |  |  |

Instrument ID: M

Tim

Tary

100

GC Column #1: STX-CLPesticides I

SDG: 65979

Column ID: 0,25 mm

 $Non-spiked\ sample:\ B030510PSOX2, RR, ,A/C$ 

GC Column #2: STX-CLPesticides II

Spike: L030510PSOX2,RR,,A/C

Column ID: 0.25 mm

Spike duplicate: LD030510PSOX2,RR,,A/C

|             | LCS SPIKE     | LCSD SPIKE    | LOWER | UPPER | RPD   | NON-SPIKE      | SPIKE          | SPIKE |   | SPIKE DUP      | SPIKE DUP |   |      |   |
|-------------|---------------|---------------|-------|-------|-------|----------------|----------------|-------|---|----------------|-----------|---|------|---|
| COMPOUND    | ADDED (ug/kg) | ADDED (ug/kg) | LIMIT | LIMIT | LIMIT | RESULT (ug/kg) | RESULT (ug/kg) | % REC | # | RESULT (ug/kg) | % REC     | # | RPD  | # |
| PCB 1016    | 200           | 200           | 65    | 140   | 30    | 0              | 228            | 114   |   | 199            | 99        |   | 13.9 |   |
| PCB 1260    | 200           | 200           | 60    | 130   | 30    | 0              | 228            | 114   |   | 220            | 110       |   | 3.6  | Ш |
| PCB 1016 #2 | 200           | 200           | 65    | 140   | 30    | 0              | 227            | 113   |   | 216            | 108       |   | 4.9  |   |
| PCB 1260 #2 | 200           | 200           | 60    | 130   | 30    | 0              | 253            | 126   |   | 232            | 116       |   | 8.6  |   |

# Column to be used to flag recovery and RPD values outside of QC limits

\* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted.

| Comments |             |  |
|----------|-------------|--|
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|          |             |  |
|          |             |  |



# **CHAIN OF CUSTODIES**

| li<br>Ol                                 | 195 Commerce Way Suite E                               | For Analytics Use Unly Rev. 5 06/18/08 | / Rev. 5 06/18/08  | ** Veneza                     |
|------------------------------------------|--------------------------------------------------------|----------------------------------------|--------------------|-------------------------------|
| I I I I I I I I I I I I I I I I I I I    | Portsmouth, I<br>Phone (603)<br>Fax (603) <sup>4</sup> | Samples were:                          | ę                  | 7                             |
| al 19980 Proj. Name: Acabodu Terrac      | 9                                                      | 2) Temp blank °C                       | J<br>Po            | -<br>b.                       |
| Woodard &Curran                          |                                                        | 3) Received in good condition          | tion Sor N         | <u></u>                       |
| Amy Wallace                              | WW = Wastewater<br>SW = Surface Water                  | 4) pH checked by:                      | よる                 | <u> </u>                      |
| 35 New England Business Center Suite 180 | GW = Groundwater<br>DW = Drinking Water                | 5) Labels checked by:                  | CP 3/3/10          | P                             |
| Andover, MA 01810                        |                                                        |                                        |                    | :/8/                          |
| (978)557-8150 PO# Quote #                | act A M€                                               | Container Key                          |                    | Devie                         |
| Sampler (Signature): WWW WO              | 17-                                                    | P=plastic G=glass                      |                    | DF<br>1994<br>1994            |
| Station identification Date Time An      | Analysis  40.0 C Huo₃  40.0 C Huo₃  40.0 C Huo₃        | Container<br>number/type pH            | Analytics Sample # | /<br>8                        |
| PTC-CBK-13:32-04:31 3/3/16 10:08 PCB     | ×                                                      | caulk 1 6                              | 65979-12           | 7 <i>e]</i><br>EL             |
| PTC-CBC-1352-0432   10:10                | ×                                                      | -<br>-<br>3                            | 5                  | miT<br>SmiT<br>SmiT           |
| PTC-CRC-1332-0433   10:16                | ×                                                      | <u>හ</u><br>                           | 7.1                | 01/                           |
| PTC-CBCD-1352-0434 10:18                 | *                                                      | ر<br>-<br>ا                            | 5                  | (되<br>아)<br>기/                |
| PTC- CWK-13:32-0435 10:21                | ×                                                      | WP / G                                 | 91                 | <del>[e]</del><br>El          |
| PTC-CWKD-1332-0436 1021                  | *                                                      | MP I G                                 | 4                  | S Section 1991                |
| PTC_CWK-1333-0437 10:30                  | ×                                                      | <b>!</b>                               | <u>න</u>           |                               |
| PTC-CWT-1332-0438 10:30                  | × ×                                                    | 9 - dm                                 | 5                  |                               |
| PTC-CWW-1332-0439 10:31                  | X                                                      | G - 03                                 | 3                  |                               |
| PTC-CWD-1332-0440 10:32                  | × ×                                                    |                                        | 12                 |                               |
| PTC-CBIC-13:32-044/ 4 10:35              | <u>×</u>                                               | cau( 2   G                             | 77                 |                               |
| Comments / Instructions:                 |                                                        | Project Requirements:                  | ents:<br>Iv        |                               |
| sing mel@ washadcoran.com SOXhlet/PCB &  | 083                                                    | Report Type:                           | State Standard:    | )<br>2600<br>~~               |
| Turnaround Time (TAT)                    | MCP* X                                                 | Level II*                              |                    |                               |
|                                          | CTRCP*                                                 | Level III*                             | (eg. S-1 or GW-1)  | W W                           |
| 24hr*   48hr*   72hr*   X   5 Davs*      | *U00                                                   | Standard RI                            | EDD Required: 왡 N  | bąńa<br>()                    |
| ] 10 Days                                | 300                                                    | Other                                  | Type: GIS Kou      | velingu<br>Selingu<br>Selingu |
| אי, ופט פויטיטיפי וכין וויינים           | *                                                      |                                        | )                  | -                             |

| For Analytics Use Only Rev. 5 06/18/08           | Samples were:     | 2, 5.)                                 | od condition Oor N       | 2        | 0x: (2/3/3/10                          | 26/1/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2 | pevie                         | уран Касса                                             | twoe DH Analytics Sample #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 65975 - 23 a 7 a 30            | Sumit S                       | 52                              | 18/18/19/19                 | r<br>[c:::<br>[c]<br>[ve/ | 23 Sted Sted          | C- 29                            | \$                           | 3                                | 5 32                   | 53                             | Project Requirements: | *Fee may apply State: State Standard:                                                  | WA MA                 | (eg. S-1 or GW-1) | z                          | Type: GIS Year and Callings |
|--------------------------------------------------|-------------------|----------------------------------------|--------------------------|----------|----------------------------------------|------------------------------------------|-------------------------------|--------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------------------------|---------------------------------|-----------------------------|---------------------------|-----------------------|----------------------------------|------------------------------|----------------------------------|------------------------|--------------------------------|-----------------------|----------------------------------------------------------------------------------------|-----------------------|-------------------|----------------------------|-----------------------------|
| 195 Commerce Way Suite E<br>Portsmouth, NH 03801 |                   | Teccace   Matrix Rey: 2) Temp blank °C |                          | <u>-</u> | GW = Groundwater 5) Labels checked by: | -                                        | E = Extract 7 U Container Key |                                                        | Analysis E Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container Conta | ×                              | - day x                       | Cauck                           |                             | - Am X                    | ) JM X X              | X Caulk 1                        | X                            | - )<br>x                         |                        | X X X                          | Projec                | Report Type:                                                                           | X MCP* X Level II*    | CTRCP* Level III* | Level IV*                  |                             |
| environmental                                    | II C   laboratory | Project#: 8/0980 Proj. Name: Rabody TE | Company: Woodard &Curran |          | 35 New                                 |                                          | Phone:                        | Sampler (Signature): (MXXV) (V) Commenter (Signature): | <del>ر</del> کې                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | PTC-CWK-1332-0448 3/2/10 10:40 | 1 PTC CWK-1932-0443 3/3 10:42 | 20 ATC- CBK-1332-0444 3/8 10:45 | FTC-cut-1332-0445 3/2 10:49 | PTC-Cow-1332-0446   3/2   | 9TC-CWM-1332-0447 3/3 | \$ PTB-CBK- 11510-0448 3/2 11:26 | PTB-CBC-11510-0449 3/2 11:24 | 523 FTB-CBC-11510-0450 3/2 11:22 | FTO-CEK-11510-0451 3/2 | 7 PTB-CBK-11510-0452 3/2 11:56 |                       | Email Results to:<br>AWA Macke & woodand corran, com<br>SIND Mel & woodand corran, com | Turnaround Time (TAT) |                   | 24hr* 48hr* 72hr* 75 Davs* | ] 10 Days                   |

# Chain Of Custody Form

|                                                  | 7                                           | 6                           | X                             | ) 의                                                        | S                                        | TAP               | Devie<br>Devie | BOOM D       | 09                                          | 74;3<br>2+         | 7                |                     | ?//                | \S\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | 120 /S             |                      |                                         |                           |                     |                        |                          | )<br>200                                                  | )19<br>000               | No.               | Della<br>Pedas                 | Melinqui<br>Relinqui |                                      |
|--------------------------------------------------|---------------------------------------------|-----------------------------|-------------------------------|------------------------------------------------------------|------------------------------------------|-------------------|----------------|--------------|---------------------------------------------|--------------------|------------------|---------------------|--------------------|----------------------------------------|--------------------|----------------------|-----------------------------------------|---------------------------|---------------------|------------------------|--------------------------|-----------------------------------------------------------|--------------------------|-------------------|--------------------------------|----------------------|--------------------------------------|
| Rev. 5 06/18/08                                  |                                             | SS                          | tion You N                    | 6 3/3/10                                                   | A 3/3/10                                 | :X8               | pavie          | Rece         | Analytics Sample #                          | ٠                  | 35               | 36                  | £2                 |                                        | 39 □               | 0,40                 | <u>بر</u>                               | 24                        | 43                  | 44                     | nts:                     | y<br>State Standard:                                      | unjet:                   | (eg. S-1 or GW-1) | EDD Required: 🕅 N              | Type: GIS Year       | )<br>j                               |
| For Analytics Use Only Rev. 5 06/18/08           | Samples were:  1) Shipped or hand-delivered | 2) Temp blank °C            | 3) Received in good condition | 4) pH checked by: 18                                       | 5) Labels checked by:                    |                   | Container Key  |              | Container Container Matrix number/twoe pH / | 2 1 900            | X WP 1 G-        | - OW                | 1 9vv              | <u> </u>                               | WP 1 G             | WP ( G               | we i 6-                                 | MP I G                    | WP I G              | wates 1 6 6            | Project Requirements:    | *Fee may apply Report Type:                               | o* X Level II* X MA      | Level III*        | O* Level IV* CT                | Other                |                                      |
| 195 Commerce Way Suite E<br>Portsmouth, NH 03801 | Phone (603) 436-5111<br>Fax (603) 430-2151  | Matrix Key:<br>C = Concrete | WP = Wipe                     | WW = Wastewater<br>SW = Surface Water                      | GW = Groundwater<br>DW = Drinking Water  | /Sludge           |                | Preservation |                                             |                    |                  | >                   | ×                  | >                                      | X /                | × ,                  | ×                                       | ×                         | × /                 |                        |                          |                                                           | Hed neg. X MCP*          | )<br>J            | *aog ]                         |                      | 15.                                  |
| ntal.                                            | נ                                           | Rabody Terrace              | つ                             | den eine der gegen der der der der der der der der der der | 180                                      |                   | Quote #        |              | Analysis                                    | 909                |                  |                     |                    |                                        |                    |                      |                                         |                           |                     | >                      | ctions:                  | Soxhlet/PCB 8082                                          | *Amber (Her (DCB) tested | ことで               | 2/10                           |                      |                                      |
|                                                  | ( V laboratory                              | Proj. Name: Ral             |                               | Jace                                                       | 35 New England Business Center Suite 180 | 1810              | #0             | \            | Sample Sample<br>Date Time                  | 53 3/2/10 11:51    | 25:11:20         | 55 11:33            | V                  | 57/80                                  | 58 17:07           | - T                  | (S) (S) (S) (S) (S) (S) (S) (S) (S) (S) |                           | 63   11:47          | 63 V 11:15             | Comments / Instructions: | SOXh                                                      |                          | Pry residux       |                                |                      |                                      |
|                                                  | inc.                                        | Project#: 010980            | Company: Woodard &Curran      | Contact: Arry Wallace                                      | Address: 35 New England                  | Andover, MA 01810 | Phone:         | Sampler (Si  | Station Identification                      | PTB-CWK-11510-0453 | 15-10-01511-0451 | 1870-CWK-11510-0455 | PTB-CWK-11510-0456 | e PTE- CWK-11510-0457                  | PTB-CWW-11510-0458 | B PTB-CWT-11510-0459 | PTB-CWT-11510-0460                      | 1910 -01511 - amo-614 254 | PTB-CWM- 11510-0462 | 5 940-cept - 0782-8463 |                          | Email Results to:<br>awallace@uxxaarkoran.com<br>jnv.mel@ | Turnaround Time (TAT)    |                   | 24hr* 48hr*<br>72hr* X 5 Davs* | 10 Days              | the may apply, tall approval require |

(\*) Sample containers states "PTB-cum-11510-0457", awaiting client's Instructions - of 3/3/10, Please label as 'PTB-Cum-11510-0457" as per Autallace's client's Instructions - of 3/3/10, Please label as 'PTB-Cum-11510-0457" as per Autallace's client's Instructions - of 3/3/10, Please label as 'PTB-Cum-11510-0457" as per Autallace's client's Instructions - of 3/3/10, Please label as 'PTB-Cum-11510-0457" as per Autallace's client's Instructions - of 3/3/10, Please label as 'PTB-Cum-11510-0457" as per Autallace's client's Instructions - of 3/3/10, Please label as 'PTB-Cum-11510-0457" as per Autallace's client's Instructions - of 3/3/10, Please label as 'PTB-Cum-11510-0457" as per Autallace's client's Instructions - of 3/3/10, Please label as 'PTB-Cum-11510-0457" as per Autallace's client's label as 'PTB-Cum-11510-0457" as per Autallace's client's label as 'PTB-Cum-11510-0457" as per Autallace's client's label as 'PTB-Cum-11510-0457" as per Autallace's client's label as 'PTB-Cum-11510-0457" as per Autallace's client's label as 'PTB-Cum-11510-0457" as per Autallace's client as 'PTB-Cum-11510-0457" as per Autallace's client as 'PTB-Cum-11510-0457" as 'PTB-Cum-11510-0457" as 'PTB-Cum-11510-0457" as 'PTB-Cum-11510-0457" as 'PTB-Cum-11510-0457" as 'PTB-Cum-11510-0457" as 'PTB-Cum-11510-0457" as 'PTB-Cum-11510-0457" as 'PTB-Cum-11510-0457" as 'PTB-Cum-11510-0457" as 'PTB-Cum-11510-0457" as 'PTB-Cum-11510-0457" as 'PTB-Cum-11510-0457" as 'PTB-Cum-11510-0457" as 'PTB-Cum-11510-0457" as 'PTB-Cum-11510-0457" as 'PTB-Cum-11510-0457" as 'PTB-Cum-11510-0457" as 'PTB-Cum-11510-0457" as 'PTB-Cum-11510-0457" as 'PTB-Cum-11510-0457" as 'PTB-Cum-11510-0457" as 'PTB-Cum-11510-0457" as 'PTB-Cum-11510-0457" as 'PTB-Cum-11510-0457" as 'PTB-Cum-11510-0457" as 'PTB-Cum-11510-0457" as 'PTB-Cum-11510-0457" as 'PTB-Cum-11510-0457" as 'PTB-Cum-11510-0457" as 'PTB-Cum-11510-0457" as 'PTB-Cum-11510-0457" as 'PTB-Cum-11510-0457" as 'PTB-Cum-11510-0457" as 'PTB-Cum-11510-0457" as 'PTB-Cum-11510-0457" as 'PTB-Cum-11510-0457" as 'PTB-Cum-11510-0457"

# Chain Of Custody Form

|                                                             | en                  | environmental                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 195 Commerce Way Suite E<br>Portsmouth, NH 03801                     | ш             | For Ana                                     | ytics                                  | Jse Onl                  | For Analytics Use Only Rev. 5 06/18/08 |                          |                                                                                                    |         |
|-------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|---------------|---------------------------------------------|----------------------------------------|--------------------------|----------------------------------------|--------------------------|----------------------------------------------------------------------------------------------------|---------|
|                                                             | ran<br>A            | laboratory LLC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Phone (603) 436-5111<br>Fax (603) 430-2151                           |               | Samples were:  1) Shipped or hand-delivered | were<br>d or ha                        | nd-delive                | red )                                  | 2                        |                                                                                                    |         |
| Project#: 8\0980 Proj. 1                                    | Proj. Name: 🤾       | Rabodu Terrace                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Matrix Key:                                                          |               | 2) Temp blank °C                            | blank º                                |                          | J. 25-                                 | <i>y</i> 6               |                                                                                                    |         |
| Company: Woodard &Curran                                    |                     | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | WP = Wipe                                                            |               | 3) Received in good condition               | ed in a                                | ood conc                 | lition Por N                           | r)                       |                                                                                                    |         |
| Contact: Arry Wallace                                       |                     | de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control de control | WW = Wastewater<br>SW = Surface Water                                | ter<br>/ater  | 4) pH checked by:                           | cked                                   | ; <u>,</u>               | ) <u>t</u>                             | οľ                       |                                                                                                    |         |
| Address: 35 New England Business Center Suite 180           | s Center S          | uite 180                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | GW = Groundwater DW = Drinking Water                                 | iter<br>Vater | 5) Labels checked by:                       | check                                  | d by:                    | (83/3/10                               | ∋ }                      |                                                                                                    |         |
| Andover, MA 01810                                           |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | S = Soil/Sludge                                                      |               |                                             |                                        |                          |                                        | 9)(                      | -N                                                                                                 | ·ta     |
| Phone: (978)557-8150 PO#                                    |                     | Quote #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | E = Extract                                                          |               | Container Key                               | Key                                    |                          |                                        |                          | Davie<br>Sived                                                                                     | 20.1    |
| Sampler (Si                                                 |                     | **************************************                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Preservation                                                         | K3H           | P=plastic                                   | ć<br>G≕glass                           |                          |                                        |                          | 7                                                                                                  |         |
| Station identification Da                                   | Sample Sa<br>Date T | Sample Analysis<br>Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | H <sup>2</sup> ZO <sup>4</sup><br>HMO <sup>3</sup><br>4° C<br>Nubres | нсг           | Matrix                                      | Container<br>number/tvoe               | . ed                     | Analytics Sample #                     | 0                        |                                                                                                    | 7       |
| 9 PTX- COK-111302-0464 3/2/                                 | 2                   | 1318 8181                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                      |               | Cawk                                        |                                        | <u>ل</u>                 | 54-67650                               | 81                       | 36                                                                                                 |         |
| 29 MX - CEXC-111308-0465                                    | <u> </u>            | 1381                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 7                                                                    |               | J                                           |                                        | J                        | 9,5                                    | miT<br>-}                | 26<br>29<br>20<br>20<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30 | 11111   |
| 979 CEC- 111363-0466                                        |                     | 333                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | >                                                                    |               | 0                                           | )                                      | (J-                      | th                                     | (                        |                                                                                                    |         |
| 2 PTX-CBK-111308-0467                                       | 7.                  | 1343                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 7                                                                    | 1-1-1-1       | Caulk                                       | 9   1                                  |                          | 84                                     | )  -                     | 01/                                                                                                |         |
| @ PTX - CBIC - 111302 - 0468                                |                     | 9256                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | >                                                                    |               | Caulk                                       | )                                      | ال                       | <i>5</i> h                             | ~g~                      | [2]                                                                                                |         |
| ,                                                           | 3                   | 1340                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <i>y</i>                                                             | ×             |                                             |                                        | ار                       | QS .                                   | £ 0100                   | S<br>Supplementation                                                                               |         |
| of ptx- cwk- 111303-0470                                    | 4)                  | 176                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                      | $\searrow$    | βM                                          | )                                      | 9                        | 51                                     |                          |                                                                                                    |         |
| O PTX-CWK-111303-0471                                       | 6                   | 353                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ```                                                                  | ×             | wf                                          | }                                      | 9                        | 25                                     |                          |                                                                                                    |         |
| RLH0-808-111-XMJ-XTJ 255                                    | 6,                  | 1354                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | >                                                                    | ×             | ტო                                          |                                        | G                        | 52                                     |                          |                                                                                                    |         |
| o FTK- CWW-111302-0473                                      | 7                   | (400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                      | ×             | ωρ                                          | )   (                                  | Ģ                        | hS                                     |                          |                                                                                                    |         |
| hcho-eog111-Lm3-X18 22                                      | =                   | 708<br>1108                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                      | ×             | 4WP                                         | <u>ل</u><br>                           | k.                       | 52                                     |                          |                                                                                                    | •       |
|                                                             | nents / in          | Comments / instructions:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                      | ·             | 4                                           | oject                                  | Project Requirements:    | ents:                                  |                          |                                                                                                    |         |
| Email results to:<br>awallace & woodankorran.com<br>jhamel@ | So                  | Soxhlet/PCB &                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | £808                                                                 | Repo          | Report Type:                                | ** ** ** ** ** ** ** ** ** ** ** ** ** | *ree may apply<br>State: | State Standard:                        |                          | 90g                                                                                                | -,      |
| Turnaround Time (TAT)                                       |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                      | X MCP*        | *X Level II*                                | <br>*_                                 | ¥<br>V                   |                                        | O ∕√<br>ubler:           | DQK                                                                                                |         |
|                                                             |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                      | CTRCP*        |                                             | *                                      | ME                       | (eg. S-1 or GW-1)                      |                          | 1/2<br>10/2<br>1/4                                                                                 | ٠,٨٠    |
| 24hr 48hr 72hr* X 5 nave*                                   |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                      |               | * Level IV*<br>Tetandard                    | <u>*</u>                               | 5 =                      | EDD Required: 😭 N                      | $\gamma \gamma_{\gamma}$ | 9,)                                                                                                | nalis   |
| 10 Days                                                     |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                      | <u> </u>      |                                             |                                        | Other:                   | Type: GIS Key                          |                          | iupnilə?<br>iupnilə?                                                                               | unhuus. |
| Analytics\AEL Documents\AEL COC                             |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                      |               |                                             | 1                                      |                          | Page 5 of 6                            |                          |                                                                                                    |         |
|                                                             |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                      |               |                                             |                                        |                          |                                        |                          |                                                                                                    |         |

| Project#: 8 0960  Company: Woodard & Curran  Contact: Arry WQL No Notates: 35 New England BL Andover, MA 0181  Andover, MA 0181  Phone: (978)557-8150  Station Identification  FTX-CWM-111303-0476  FTX-CWM-111303-0476  FTX-CWM-111303-0476  FTX-CWM-111303-0477  FTX-CWM-111303-0476  FTX-CWM-111303-0476  FTX-CWM-111303-0477  TX-CWM-111303-0477  FTX-CWM-111303-0477  TX-CBK-111303-0477  FTX-CHM-111303-0477  FTX-CBK-111303-0477  FTX-CBK-11111111111111111111111111111111111 | हार्केट्ट A environme | Fax (603) 436-5111 Samples were:  (603) 430-2151 1) Shipped of hand-delivered | 810980 Proj. Name: Rabodu Terrace C= concrete |  | Amy Wallace water | 35 New England Business Center Suite 180 | S = Soil/Sludge 2 W | PO# Quote # E = Extract & Container Key | MALLY Warner Preservation 単音 中 Plastic G-glass | Sample Sample Analysis Sample Analysis Sample Analysis Sample Analysis Sample Analysis Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample | 25-54559 9 1 Jm X | 1348 X X X X 348 | 1350 X X X 111 G SE | 7010 | 313 14:15 X X X X X X X X X X X X X X X X X X X | PTX-CBK-111303-0480 3/2- 1404 V |  |  |  |  |  | Comments / Instructions; | *Fee may apply | DA/HOILET/PCI | ** Am ber liter (DCB) tester (NCB)   NMCP*   Level 11*   NMA   NMCP*   GTRCP* Level III*   ME (eg. S-1 or GW-1) & S & C | X 5 Days*   The Standard   EDD Required: © N   Standard   RI   EDD Required: © N   EDD | Other: Type: 615 Love Mind | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------------------------------|-----------------------------------------------|--|-------------------|------------------------------------------|---------------------|-----------------------------------------|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------------|---------------------|------|-------------------------------------------------|---------------------------------|--|--|--|--|--|--------------------------|----------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------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- COC is correct as per A. Wallace 's empire - CP 3/4/10

# ANALYTICS SAMPLE RECEIPT CHECKLIST



| AEL LAB#: 65979  CLIENT: Woodard & Curran  PROJECT: Peabody Terrace                       | COOLER NUMBER: NUMBER OF COOLERS: DATE RECEIVED:                     | NA<br>1<br>3/3/10                           |            |
|-------------------------------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------|------------|
| A: PRELIMINARY EXAMINATION:  1. Cooler received by (initials)                             | DATE COOLER OPENED:                                                  | 3/3/10                                      |            |
|                                                                                           | Date Received:                                                       | 7/2/10                                      |            |
| 2. Circle one:  Hand delivered  (If so, skip 3)  3. Did cooler come with a shipping slip? | Shipped V                                                            | NIA                                         |            |
| 3a. Enter carrier name and airbill number here:                                           |                                                                      |                                             |            |
| 4. Were custody seals on the outside of cooler?  How many & where:  Seal Date:            | Y<br>Seal Name:                                                      | N                                           |            |
| 5. Did the custody seals arrive unbroken and intact upon arrival?                         | Y                                                                    | NA                                          |            |
| 6. COC#:                                                                                  |                                                                      |                                             |            |
| 7. Were Custody papers filled out properly (ink,signed, etc)?                             | Y                                                                    | N .                                         |            |
| 8. Were custody papers sealed in a plastic bag?                                           | Ŷ                                                                    | N                                           |            |
| 9. Did you sign the COC in the appropriate place?                                         | Ŷ                                                                    | N                                           |            |
| 10. Was the project identifiable from the COC papers?                                     | $\begin{pmatrix} \hat{\mathbf{y}} \\ \hat{\mathbf{y}} \end{pmatrix}$ | N _                                         |            |
| 11. Was enough ice used to chill the cooler?                                              | Temp. of cooler:                                                     | 1.500                                       |            |
| B. Log-In: Date samples were logged in: 3/3/10                                            | By:                                                                  | 11                                          | ماء        |
| 12. Type of packing in cooler (bubble wrap, popcorn)                                      | (V)                                                                  | n mox w/di                                  | JIO&       |
| 13. Were all bottles sealed in separate plastic bags?                                     | (3/3/4XX                                                             | (N) IN V                                    |            |
| 14. Did all bottles arrive unbroken and were labels in good condition?                    | Ŷ                                                                    | N                                           |            |
| 15. Were all bottle labels complete(ID,Date,time,etc.) - No tiwes                         | on labels Dochali                                                    | 3/10 N 65979-60 and                         | ر<br>۔ دمع |
| 16. Did all bottle labels agree with custody papers?                                      | et es \$3 3 10                                                       | N 66979-38                                  | -<br>- Dr. |
| 17. Were the correct containers used for the tests indicated:                             | W CV                                                                 | N labels than                               | 500        |
| 18. Were samples received at the correct pH? Had pH& 6.0 for                              | 74/                                                                  | N labels that N do not match N please see ( | ×.         |
| 19. Was sufficient amount of sample sent for the tests indicated?                         |                                                                      | N                                           |            |
| 20. Were bubbles absent in VOA samples?                                                   | Y                                                                    | (ND)                                        |            |
| If NO, List sample #'s:                                                                   |                                                                      |                                             |            |
| 21. Laboratory labeling verified by (initials):                                           | Date:                                                                | P.3/3/10                                    |            |

195 Commerce Way Suite E Portsmouth, New Hampshire 03801 603-436-5111 Fax 603-430-2151 800-929-9906

www.analyticslab.com

Date: March 3, 2010 3:46:22 PM EST

To: "Casey Payne" <cpayne@analyticslab.com>

Cc: "Melissa Gulli" <mgulli@analyticslab.com>, "Jaci Bergeron" <jbergeron@analyticslab.com>, "Ashley Peters" <apeters@analyticslab.com>

Hi Casey

Thanks for catching those. The correct sample IDs for those two samples

PTB-CWW-11510-0457 (as stated on the container)

and

PTC-CBKQ-1332-0479 (as stated on the chain of custody)

Thanks, Amy

----Original Message----

From: Casey Payne [mailto:cpayne@analyticslab.com]

Sent: Wednesday, March 03, 2010 2:15 PM

To: Amy Wallace

Cc: Melissa Gulli; Jaci Bergeron; Ashley Peters

Subject: Samples we recieved today

Hi Amy,

There are some slight discrepancies between the sample containers and the COC. For your sample "PTB-CWK-11510-0457" the container states "PTB-CWW-11510-0457" which is correct? Also a water sample "PTC-CBKQ-1332-0479" has a label of "PTC-CBK-1332-0479" on the container. Please let me know how to name these as soon as possible. Thank you.

Casey Payne Analytics Environmental Lab, LLC 195 Commerce Way, Suite E Portsmouth, NH 03801

E: cpayne@analyticslab.com

P: 603-436-5111 F: 603-430-2151



# ANALYTICAL REPORT

Lab Number: L1004342

Client: Woodard & Curran

35 New England Business Center

Suite 180

Andover, MA 01810

ATTN: Amy Wallace

Project Name: PEABODY TERRACE

Project Number: 210980 Report Date: 04/01/10

Certifications & Approvals: MA (M-MA030), NY (11627), CT (PH-0141), NH (2206), NJ (MA015), RI (LAO00299), ME (MA0030), PA (Registration #68-02089), LA NELAC (03090), FL NELAC (E87814), US Army Corps of Engineers.

320 Forbes Boulevard, Mansfield, MA 02048-1806 508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name: PEABODY TERRACE Lab Number: L1004342

Project Number: 210980 Report Date: 04/01/10

| Alpha<br>Sample ID | Client ID           | Sample<br>Location | Collection<br>Date/Time |
|--------------------|---------------------|--------------------|-------------------------|
| L1004342-01        | PTB-CAR-11510-0481  | CAMBRIDGE, MA      | 03/25/10 13:07          |
| L1004342-02        | PTB-CAR-11510-0482  | CAMBRIDGE, MA      | 03/25/10 13:13          |
| L1004342-03        | PTX-CAR-111103-0483 | CAMBRIDGE, MA      | 03/25/10 13:25          |
| L1004342-04        | PTX-CAR-111103-0484 | CAMBRIDGE, MA      | 03/25/10 13:27          |
| L1004342-05        | PTX-CAR-111302-0485 | CAMBRIDGE, MA      | 03/25/10 13:38          |
| L1004342-06        | PTX-CAR-111302-0486 | CAMBRIDGE, MA      | 03/25/10 13:41          |
| L1004342-07        | PTC-CAR-1332-0487   | CAMBRIDGE, MA      | 03/25/10 14:08          |
| L1004342-08        | PTC-CAR-1332-0488   | CAMBRIDGE, MA      | 03/25/10 14:11          |
| L1004342-09        | PTB-CAR-S-0489      | CAMBRIDGE, MA      | 03/25/10 13:56          |

L1004342

Project Name: PEABODY TERRACE Lab Number:

Project Number: 210980 Report Date: 04/01/10

#### **Case Narrative**

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

## Sample Receipt

The samples were received at the laboratory below the required temperature range. The samples were transported to the laboratory in a cooler with ice but were not frozen upon receipt.

**PCB Homologs** 

L1004342-01 through -09 as well as the associated QC were analyzed at a 1:2 dilution due to sample matrix.



Project Name: PEABODY TERRACE Lab Number: L1004342

Project Number: 210980 Report Date: 04/01/10

**Case Narrative (continued)** 

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

Title: Technical Director/Representative Date: 04/01/10

Cyrellia fin Chen

# **ORGANICS**



# **SEMIVOLATILES**



**Project Name:** Lab Number: PEABODY TERRACE L1004342

**Project Number:** Report Date: 210980 04/01/10

# **SAMPLE RESULTS**

Date Collected: Lab ID: D L1004342-01 03/25/10 13:07

Client ID: PTB-CAR-11510-0481 Date Received: 03/25/10 Sample Location: CAMBRIDGE, MA Field Prep: Not Specified

Matrix: Air Cartridge Extraction Method: EPA 3540C Analytical Method: 1,8270C-SIM Extraction Date: 03/29/10 08:45 Analytical Date: 03/31/10 14:54 Cleanup Method1: EPA 3630

Analyst: Cleanup Date1: WN 03/30/10

Cleanup Method2: ----

| Parameter                               | Result | Qualifier | Units   | RDL  | <b>Dilution Factor</b> |
|-----------------------------------------|--------|-----------|---------|------|------------------------|
| PCB Homologs by GC/MS-SIM - Mansfield I | _ab    |           |         |      |                        |
| Monochlorobiphenyls                     | ND     |           | ng/cart | 5.00 | 2                      |
|                                         |        |           |         |      |                        |
| Dichlorobiphenyls                       | ND     |           | ng/cart | 5.00 | 2                      |
| Trichlorobiphenyls                      | ND     |           | ng/cart | 5.00 | 2                      |
| Tetrachlorobiphenyls                    | 5.10   |           | ng/cart | 5.00 | 2                      |
| Pentachlorobiphenyls                    | 9.20   |           | ng/cart | 5.00 | 2                      |
| Hexachlorobiphenyls                     | ND     |           | ng/cart | 5.00 | 2                      |
| Heptachlorobiphenyls                    | ND     |           | ng/cart | 5.00 | 2                      |
| Octachlorobiphenyls                     | ND     |           | ng/cart | 5.00 | 2                      |
| Nonachlorobiphenyls                     | ND     |           | ng/cart | 5.00 | 2                      |
| Decachlorobiphenyl                      | ND     |           | ng/cart | 5.00 | 2                      |
| Total Homologs                          | 14.3   |           | ng/cart | 5.00 | 2                      |

| Surrogate      | % Recovery | Qualifier | Acceptance<br>Criteria |  |
|----------------|------------|-----------|------------------------|--|
| Cl3-BZ#19-C13  | 83         |           | 50-125                 |  |
| CI8-BZ#202-C13 | 88         |           | 50-125                 |  |



Project Name: PEABODY TERRACE Lab Number: L1004342

Project Number: 210980 Report Date: 04/01/10

# **SAMPLE RESULTS**

Lab ID: L1004342-02 D Date Collected: 03/25/10 13:13

Client ID: PTB-CAR-11510-0482 Date Received: 03/25/10 Sample Location: CAMBRIDGE, MA Field Prep: Not Specified

Matrix:Air CartridgeExtraction Method:EPA 3540CAnalytical Method:1,8270C-SIMExtraction Date:03/29/10 08:45Analytical Date:03/31/10 16:03Cleanup Method1:EPA 3630

Analyst: WN Cleanup Date1: 03/30/10

Cleanup Method2: ----

| Parameter                               | Result | Qualifier | Units   | RDL  | <b>Dilution Factor</b> |
|-----------------------------------------|--------|-----------|---------|------|------------------------|
| PCB Homologs by GC/MS-SIM - Mansfield L | .ab    |           |         |      |                        |
|                                         |        |           |         |      |                        |
| Monochlorobiphenyls                     | ND     |           | ng/cart | 5.00 | 2                      |
| Dichlorobiphenyls                       | ND     |           | ng/cart | 5.00 | 2                      |
| Trichlorobiphenyls                      | ND     |           | ng/cart | 5.00 | 2                      |
| Tetrachlorobiphenyls                    | 8.30   |           | ng/cart | 5.00 | 2                      |
| Pentachlorobiphenyls                    | 9.80   |           | ng/cart | 5.00 | 2                      |
| Hexachlorobiphenyls                     | ND     |           | ng/cart | 5.00 | 2                      |
| Heptachlorobiphenyls                    | ND     |           | ng/cart | 5.00 | 2                      |
| Octachlorobiphenyls                     | ND     |           | ng/cart | 5.00 | 2                      |
| Nonachlorobiphenyls                     | ND     |           | ng/cart | 5.00 | 2                      |
| Decachlorobiphenyl                      | ND     |           | ng/cart | 5.00 | 2                      |
| Total Homologs                          | 18.1   |           | ng/cart | 5.00 | 2                      |

| Surrogate      | % Recovery | Qualifier | Acceptance<br>Criteria |  |
|----------------|------------|-----------|------------------------|--|
| Cl3-BZ#19-C13  | 86         |           | 50-125                 |  |
| CI8-BZ#202-C13 | 94         |           | 50-125                 |  |



**Project Name:** Lab Number: PEABODY TERRACE L1004342

**Project Number:** Report Date: 210980 04/01/10

# **SAMPLE RESULTS**

Date Collected: Lab ID: D L1004342-03 03/25/10 13:25

Client ID: PTX-CAR-111103-0483 Date Received: 03/25/10

Sample Location: CAMBRIDGE, MA Field Prep: Not Specified

Matrix: Air Cartridge Extraction Method: EPA 3540C Analytical Method: 1,8270C-SIM Extraction Date: 03/29/10 08:45

Analytical Date: 03/31/10 17:11 Cleanup Method1: EPA 3630 Analyst: Cleanup Date1: WN 03/30/10

Cleanup Method2: ----

| Parameter                   | Result        | Qualifier | Units   | RDL  | <b>Dilution Factor</b> |
|-----------------------------|---------------|-----------|---------|------|------------------------|
| PCB Homologs by GC/MS-SIM - | Mansfield Lab |           |         |      |                        |
| Monochlorobiphenyls         | ND            |           | ng/cart | 5.00 | 2                      |
| Dichlorobiphenyls           | ND            |           | ng/cart | 5.00 | 2                      |
| Trichlorobiphenyls          | ND            |           | ng/cart | 5.00 | 2                      |
| Tetrachlorobiphenyls        | ND            |           | ng/cart | 5.00 | 2                      |
| Pentachlorobiphenyls        | ND            |           | ng/cart | 5.00 | 2                      |
| Hexachlorobiphenyls         | ND            |           | ng/cart | 5.00 | 2                      |
| Heptachlorobiphenyls        | ND            |           | ng/cart | 5.00 | 2                      |
| Octachlorobiphenyls         | ND            |           | ng/cart | 5.00 | 2                      |
| Nonachlorobiphenyls         | ND            |           | ng/cart | 5.00 | 2                      |
| Decachlorobiphenyl          | ND            |           | ng/cart | 5.00 | 2                      |
| Total Homologs              | ND            |           | ng/cart | 5.00 | 2                      |

| Surrogate      | % Recovery | Qualifier | Acceptance<br>Criteria |  |
|----------------|------------|-----------|------------------------|--|
| Cl3-BZ#19-C13  | 88         |           | 50-125                 |  |
| CI8-BZ#202-C13 | 96         |           | 50-125                 |  |



Project Name: PEABODY TERRACE Lab Number: L1004342

Project Number: 210980 Report Date: 04/01/10

# **SAMPLE RESULTS**

Lab ID: L1004342-04 D Date Collected: 03/25/10 13:27

Client ID: PTX-CAR-111103-0484 Date Received: 03/25/10

Sample Location: CAMBRIDGE, MA Field Prep: Not Specified Matrix: Air Cartridge Extraction Method: EPA 3540C

Matrix:Air CartridgeExtraction Method:EPA 3540CAnalytical Method:1,8270C-SIMExtraction Date:03/29/10 08:45Analytical Date:03/31/10 18:21Cleanup Method1:EPA 3630

Analyst: WN Cleanup Date1: 03/30/10 Cleanup Method2: ----

Parameter Result Qualifier Units RDL **Dilution Factor** PCB Homologs by GC/MS-SIM - Mansfield Lab Monochlorobiphenyls ND 5.00 2 ng/cart ND 2 Dichlorobiphenyls ng/cart 5.00 Trichlorobiphenyls ND 5.00 2 ng/cart Tetrachlorobiphenyls ND ng/cart 5.00 2 Pentachlorobiphenyls ND 2 ng/cart 5.00 ND 2 Hexachlorobiphenyls ng/cart 5.00 Heptachlorobiphenyls ND ng/cart 5.00 2 ND Octachlorobiphenyls ng/cart 5.00 2 Nonachlorobiphenyls ND 5.00 2 ng/cart Decachlorobiphenyl ND ng/cart 5.00 2 ND **Total Homologs** 2 ng/cart 5.00

| Surrogate      | % Recovery | Qualifier | Acceptance<br>Criteria |  |
|----------------|------------|-----------|------------------------|--|
| Cl3-BZ#19-C13  | 73         |           | 50-125                 |  |
| CI8-BZ#202-C13 | 80         |           | 50-125                 |  |



Project Name: PEABODY TERRACE Lab Number: L1004342

Project Number: 210980 Report Date: 04/01/10

# **SAMPLE RESULTS**

Lab ID: L1004342-05 D Date Collected: 03/25/10 13:38

Client ID: PTX-CAR-111302-0485 Date Received: 03/25/10

Sample Location: CAMBRIDGE, MA Field Prep: Not Specified

Matrix:Air CartridgeExtraction Method:EPA 3540CAnalytical Method:1,8270C-SIMExtraction Date:03/29/10 08:45

Analytical Date: 03/31/10 19:29 Cleanup Method1: EPA 3630 Analyst: WN Cleanup Date1: 03/30/10

Cleanup Method2: ----

| Parameter                     | Result        | Qualifier | Units   | RDL  | Dilution Factor |
|-------------------------------|---------------|-----------|---------|------|-----------------|
| PCB Homologs by GC/MS-SIM - I | Mansfield Lab |           |         |      |                 |
| Monochlorobiphenyls           | ND            |           | ng/cart | 5.00 | 2               |
| Dichlorobiphenyls             | ND            |           | ng/cart | 5.00 | 2               |
| Trichlorobiphenyls            | ND            |           | ng/cart | 5.00 | 2               |
| Tetrachlorobiphenyls          | ND            |           | ng/cart | 5.00 | 2               |
| Pentachlorobiphenyls          | ND            |           | ng/cart | 5.00 | 2               |
| Hexachlorobiphenyls           | ND            |           | ng/cart | 5.00 | 2               |
| Heptachlorobiphenyls          | ND            |           | ng/cart | 5.00 | 2               |
| Octachlorobiphenyls           | ND            |           | ng/cart | 5.00 | 2               |
| Nonachlorobiphenyls           | ND            |           | ng/cart | 5.00 | 2               |
| Decachlorobiphenyl            | ND            |           | ng/cart | 5.00 | 2               |
| Total Homologs                | ND            |           | ng/cart | 5.00 | 2               |

| Surrogate      | % Recovery | Qualifier | Acceptance<br>Criteria |  |
|----------------|------------|-----------|------------------------|--|
| Cl3-BZ#19-C13  | 94         |           | 50-125                 |  |
| Cl8-BZ#202-C13 | 99         |           | 50-125                 |  |



**Project Name:** Lab Number: PEABODY TERRACE L1004342

**Project Number:** 210980 Report Date: 04/01/10

# **SAMPLE RESULTS**

Date Collected: Lab ID: D L1004342-06 03/25/10 13:41

Client ID: PTX-CAR-111302-0486 Date Received: 03/25/10

Sample Location: CAMBRIDGE, MA Field Prep: Not Specified Matrix: Air Cartridge Extraction Method: EPA 3540C

Analytical Method: 1,8270C-SIM Extraction Date: 03/29/10 08:45 Analytical Date: 03/31/10 20:38 Cleanup Method1: EPA 3630

Analyst: Cleanup Date1: WN 03/30/10

Cleanup Method2: ----

| Parameter                               | Result | Qualifier | Units   | RDL  | <b>Dilution Factor</b> |
|-----------------------------------------|--------|-----------|---------|------|------------------------|
| PCB Homologs by GC/MS-SIM - Mansfield L | .ab    |           |         |      |                        |
|                                         |        |           |         |      |                        |
| Monochlorobiphenyls                     | ND     |           | ng/cart | 5.00 | 2                      |
| Dichlorobiphenyls                       | ND     |           | ng/cart | 5.00 | 2                      |
| Trichlorobiphenyls                      | ND     |           | ng/cart | 5.00 | 2                      |
| Tetrachlorobiphenyls                    | ND     |           | ng/cart | 5.00 | 2                      |
| Pentachlorobiphenyls                    | ND     |           | ng/cart | 5.00 | 2                      |
| Hexachlorobiphenyls                     | ND     |           | ng/cart | 5.00 | 2                      |
| Heptachlorobiphenyls                    | ND     |           | ng/cart | 5.00 | 2                      |
| Octachlorobiphenyls                     | ND     |           | ng/cart | 5.00 | 2                      |
| Nonachlorobiphenyls                     | ND     |           | ng/cart | 5.00 | 2                      |
| Decachlorobiphenyl                      | ND     |           | ng/cart | 5.00 | 2                      |
| Total Homologs                          | ND     |           | ng/cart | 5.00 | 2                      |

| Surrogate      | % Recovery | Qualifier | Acceptance<br>Criteria |  |
|----------------|------------|-----------|------------------------|--|
| Cl3-BZ#19-C13  | 92         |           | 50-125                 |  |
| CI8-BZ#202-C13 | 98         |           | 50-125                 |  |



Project Name: PEABODY TERRACE Lab Number: L1004342

Project Number: 210980 Report Date: 04/01/10

# **SAMPLE RESULTS**

Lab ID: L1004342-07 D Date Collected: 03/25/10 14:08

Client ID: PTC-CAR-1332-0487 Date Received: 03/25/10
Sample Location: CAMBRIDGE, MA Field Prep: Not Specified
Matrix: Air Cartridge Extraction Method: EPA 3540C

Matrix:Air CartridgeExtraction Method:EPA 3540CAnalytical Method:1,8270C-SIMExtraction Date:03/29/10 08:45Analytical Date:03/31/10 21:47Cleanup Method1:EPA 3630

Analyst: WN Cleanup Date1: 03/30/10

Cleanup Method2: ----

| Parameter                               | Result | Qualifier | Units   | RDL  | Dilution Factor |
|-----------------------------------------|--------|-----------|---------|------|-----------------|
| PCB Homologs by GC/MS-SIM - Mansfield L | _ab    |           |         |      |                 |
|                                         |        |           |         |      | _               |
| Monochlorobiphenyls                     | ND     |           | ng/cart | 5.00 | 2               |
| Dichlorobiphenyls                       | ND     |           | ng/cart | 5.00 | 2               |
| Trichlorobiphenyls                      | ND     |           | ng/cart | 5.00 | 2               |
| Tetrachlorobiphenyls                    | 7.70   |           | ng/cart | 5.00 | 2               |
| Pentachlorobiphenyls                    | 7.50   |           | ng/cart | 5.00 | 2               |
| Hexachlorobiphenyls                     | ND     |           | ng/cart | 5.00 | 2               |
| Heptachlorobiphenyls                    | ND     |           | ng/cart | 5.00 | 2               |
| Octachlorobiphenyls                     | ND     |           | ng/cart | 5.00 | 2               |
| Nonachlorobiphenyls                     | ND     |           | ng/cart | 5.00 | 2               |
| Decachlorobiphenyl                      | ND     |           | ng/cart | 5.00 | 2               |
| Total Homologs                          | 15.2   |           | ng/cart | 5.00 | 2               |

| Surrogate      | % Recovery | Qualifier | Acceptance<br>Criteria |  |
|----------------|------------|-----------|------------------------|--|
| Cl3-BZ#19-C13  | 87         |           | 50-125                 |  |
| CI8-BZ#202-C13 | 93         |           | 50-125                 |  |



**Project Name:** Lab Number: PEABODY TERRACE L1004342

**Project Number:** 210980 Report Date: 04/01/10

# **SAMPLE RESULTS**

Date Collected: Lab ID: D L1004342-08 03/25/10 14:11

Client ID: PTC-CAR-1332-0488 Date Received: 03/25/10 Sample Location: CAMBRIDGE, MA Field Prep: Not Specified Matrix: Air Cartridge Extraction Method: EPA 3540C

Analytical Method: 1,8270C-SIM Extraction Date: 03/29/10 08:45 Analytical Date: 03/31/10 22:56 Cleanup Method1: EPA 3630

Analyst: Cleanup Date1: WN 03/30/10

Cleanup Method2: ----

| Parameter                               | Result | Qualifier | Units   | RDL  | Dilution Factor |
|-----------------------------------------|--------|-----------|---------|------|-----------------|
| PCB Homologs by GC/MS-SIM - Mansfield L | ab     |           |         |      |                 |
| Monochlorobiphenyls                     | ND     |           | ng/cart | 5.00 | 2               |
| Dichlorobiphenyls                       | ND     |           | ng/cart | 5.00 | 2               |
| Trichlorobiphenyls                      | ND     |           | ng/cart | 5.00 | 2               |
| Tetrachlorobiphenyls                    | 7.40   |           | ng/cart | 5.00 | 2               |
| Pentachlorobiphenyls                    | ND     |           | ng/cart | 5.00 | 2               |
| Hexachlorobiphenyls                     | ND     |           | ng/cart | 5.00 | 2               |
| Heptachlorobiphenyls                    | ND     |           | ng/cart | 5.00 | 2               |
| Octachlorobiphenyls                     | ND     |           | ng/cart | 5.00 | 2               |
| Nonachlorobiphenyls                     | ND     |           | ng/cart | 5.00 | 2               |
| Decachlorobiphenyl                      | ND     |           | ng/cart | 5.00 | 2               |
| Total Homologs                          | 7.40   |           | ng/cart | 5.00 | 2               |

| Surrogate      | % Recovery | Qualifier | Acceptance<br>Criteria |  |
|----------------|------------|-----------|------------------------|--|
| Cl3-BZ#19-C13  | 85         |           | 50-125                 |  |
| CI8-BZ#202-C13 | 97         |           | 50-125                 |  |



Project Name: PEABODY TERRACE Lab Number: L1004342

Project Number: 210980 Report Date: 04/01/10

# **SAMPLE RESULTS**

Lab ID: L1004342-09 D Date Collected: 03/25/10 13:56

Client ID: PTB-CAR-S-0489 Date Received: 03/25/10 Sample Location: CAMBRIDGE, MA Field Prep: Not Specified Matrix: Air Cartridge Extraction Method: EPA 3540C Analytical Method: 1,8270C-SIM Extraction Date: 03/29/10 08:45

Analytical Date: 04/01/10 00:05 Cleanup Method1: EPA 3630 Analyst: WN Cleanup Date1: 03/30/10

Cleanup Method2: ----

| Parameter                       | Result     | Qualifier | Units   | RDL  | Dilution Factor |
|---------------------------------|------------|-----------|---------|------|-----------------|
| PCB Homologs by GC/MS-SIM - Man | sfield Lab |           |         |      |                 |
| Monochlorobiphenyls             | ND         |           | ng/cart | 5.00 | 2               |
| Dichlorobiphenyls               | ND         |           | ng/cart | 5.00 | 2               |
| Trichlorobiphenyls              | ND         |           | ng/cart | 5.00 | 2               |
| Tetrachlorobiphenyls            | ND         |           | ng/cart | 5.00 | 2               |
| Pentachlorobiphenyls            | ND         |           | ng/cart | 5.00 | 2               |
| Hexachlorobiphenyls             | ND         |           | ng/cart | 5.00 | 2               |
| Heptachlorobiphenyls            | ND         |           | ng/cart | 5.00 | 2               |
| Octachlorobiphenyls             | ND         |           | ng/cart | 5.00 | 2               |
| Nonachlorobiphenyls             | ND         |           | ng/cart | 5.00 | 2               |
| Decachlorobiphenyl              | ND         |           | ng/cart | 5.00 | 2               |
| Total Homologs                  | ND         |           | ng/cart | 5.00 | 2               |

| Surrogate      | % Recovery | Qualifier | Acceptance<br>Criteria |  |
|----------------|------------|-----------|------------------------|--|
| Cl3-BZ#19-C13  | 91         |           | 50-125                 |  |
| CI8-BZ#202-C13 | 101        |           | 50-125                 |  |



**Project Name:** PEABODY TERRACE Lab Number: L1004342

Project Number: 210980 Report Date: 04/01/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C-SIM Analytical Date: 03/31/10 12:35

Analyst: WN

Extraction Method: EPA 3540C
Extraction Date: 03/29/10 08:45
Cleanup Method1: EPA 3630

Cleanup Date1: 03/30/10 Cleanup Method2: ----

Cleanup Date2:

| Parameter                     | Result        | Qualifier      | Units   | RDL         |        |
|-------------------------------|---------------|----------------|---------|-------------|--------|
| PCB Homologs by GC/MS-SIM - N | Mansfield Lab | for sample(s): | 01-09   | Batch: WG40 | 5734-1 |
| Monochlorobiphenyls           | ND            |                | ng/cart | 5.00        |        |
| Dichlorobiphenyls             | ND            |                | ng/cart | 5.00        |        |
| Trichlorobiphenyls            | ND            |                | ng/cart | 5.00        |        |
| Tetrachlorobiphenyls          | ND            |                | ng/cart | 5.00        |        |
| Pentachlorobiphenyls          | ND            |                | ng/cart | 5.00        |        |
| Hexachlorobiphenyls           | ND            |                | ng/cart | 5.00        |        |
| Heptachlorobiphenyls          | ND            |                | ng/cart | 5.00        |        |
| Octachlorobiphenyls           | ND            |                | ng/cart | 5.00        |        |
| Nonachlorobiphenyls           | ND            |                | ng/cart | 5.00        |        |
| Decachlorobiphenyl            | ND            |                | ng/cart | 5.00        |        |
| Total Homologs                | ND            |                | ng/cart | 5.00        |        |

|                |           |           | Acceptance |  |
|----------------|-----------|-----------|------------|--|
| Surrogate      | %Recovery | Qualifier | Criteria   |  |
| CI2 P7#40 C42  | 00        |           | 50.405     |  |
| Cl3-BZ#19-C13  | 83        |           | 50-125     |  |
| CI8-BZ#202-C13 | 91        |           | 50-125     |  |



**Project Name:** PEABODY TERRACE

Project Number: 210980

Lab Number: L1004342

**Report Date:** 04/01/10

| arameter                                 | LCS<br>%Recovery | Qual       |       | CSD<br>covery | Qual     | %Recovery<br>Limits | RPD | Qual | RPD Limits |
|------------------------------------------|------------------|------------|-------|---------------|----------|---------------------|-----|------|------------|
| PCB Homologs by GC/MS-SIM - Mansfield La | ab Associated s  | sample(s): | 01-09 | Batch:        | WG405734 | -2                  |     |      |            |
| CI1-BZ#1                                 | 77               |            |       | -             |          | 40-140              | -   |      | 30         |
| CL1-BZ#3                                 | 88               |            |       | -             |          | 40-140              | -   |      | 30         |
| Cl2-BZ#4/#10                             | 92               |            |       | -             |          | 40-140              | -   |      | 30         |
| Cl2-BZ#8                                 | 76               |            |       | -             |          | 40-140              | -   |      | 30         |
| Cl3-BZ#19                                | 70               |            |       | -             |          | 40-140              | -   |      | 30         |
| Cl3-BZ#18                                | 82               |            |       | -             |          | 40-140              | -   |      | 30         |
| CI2-BZ#15                                | 70               |            |       | -             |          | 40-140              | -   |      | 30         |
| CI4-BZ#54                                | 72               |            |       | -             |          | 40-140              | -   |      | 30         |
| Cl3-BZ#29                                | 73               |            |       | -             |          | 40-140              | -   |      | 30         |
| Cl4-BZ#50                                | 71               |            |       | -             |          | 40-140              | -   |      | 30         |
| Cl3-BZ#-31                               | 70               |            |       | -             |          | 40-140              | -   |      | 30         |
| Cl3-BZ#28                                | 74               |            |       | -             |          | 40-140              | -   |      | 30         |
| Cl4-BZ#45                                | 72               |            |       | -             |          | 40-140              | -   |      | 30         |
| Cl4-BZ#52                                | 76               |            |       | -             |          | 40-140              | -   |      | 30         |
| Cl4-BZ#49                                | 69               |            |       | -             |          | 40-140              | -   |      | 30         |
| CI5-BZ#104                               | 80               |            |       | -             |          | 40-140              | -   |      | 30         |
| Cl4-BZ#47                                | 70               |            |       | -             |          | 40-140              | -   |      | 30         |
| Cl4-BZ#44                                | 92               |            |       | -             |          | 40-140              | -   |      | 30         |
| Cl3-BZ#37                                | 56               |            |       | -             |          | 40-140              | -   |      | 30         |
| CI5-BZ#121/#95/#88                       | 66               |            |       | -             |          | 40-140              | -   |      | 30         |
| Cl4-BZ#74                                | 73               |            |       | -             |          | 40-140              | -   |      | 30         |

**Project Name:** PEABODY TERRACE

Project Number: 210980

Lab Number: L1004342

**Report Date:** 04/01/10

| rameter                                | LCS<br>%Recovery  | Qual     |       | CSD<br>covery | Qual      | %Recovery<br>Limits | RPD | Qual | RPD Limits |
|----------------------------------------|-------------------|----------|-------|---------------|-----------|---------------------|-----|------|------------|
| CB Homologs by GC/MS-SIM - Mansfield L | ab Associated sar | mple(s): | 01-09 | Batch:        | WG405734- | -2                  |     |      |            |
| CI6-BZ#155                             | 68                |          |       | -             |           | 40-140              | -   |      | 30         |
| Cl4-BZ#70                              | 68                |          |       | -             |           | 40-140              | -   |      | 30         |
| Cl4-BZ#66                              | 78                |          |       | -             |           | 40-140              | -   |      | 30         |
| CI5-BZ#101/#90                         | 75                |          |       | -             |           | 40-140              | -   |      | 30         |
| CI4-BZ#56                              | 71                |          |       | -             |           | 40-140              | -   |      | 30         |
| CI5-BZ#99                              | 92                |          |       | -             |           | 40-140              | -   |      | 30         |
| CI5-BZ#87/#111                         | 76                |          |       | -             |           | 40-140              | -   |      | 30         |
| CI6-BZ#154                             | 84                |          |       | -             |           | 40-140              | -   |      | 30         |
| CI5-BZ#110                             | 104               |          |       | -             |           | 40-140              | -   |      | 30         |
| CI4-BZ#81                              | 86                |          |       | -             |           | 40-140              | -   |      | 30         |
| CI6-BZ#151                             | 82                |          |       | -             |           | 40-140              | -   |      | 30         |
| CI6-BZ#147/#149                        | 82                |          |       | -             |           | 40-140              | -   |      | 30         |
| Cl4-BZ#77                              | 78                |          |       | -             |           | 40-140              | -   |      | 30         |
| CI5-BZ#107/#123                        | 88                |          |       | -             |           | 40-140              | -   |      | 30         |
| CI7-BZ#188                             | 66                |          |       | -             |           | 40-140              | -   |      | 30         |
| CI5-BZ#118                             | 81                |          |       | -             |           | 40-140              | -   |      | 30         |
| CI6-BZ#146                             | 80                |          |       | -             |           | 40-140              | -   |      | 30         |
| CI5-BZ#114                             | 75                |          |       | -             |           | 40-140              | -   |      | 30         |
| CI6-BZ#153                             | 79                |          |       | -             |           | 40-140              | -   |      | 30         |
| CI5-BZ#105                             | 65                |          |       | -             |           | 40-140              | -   |      | 30         |
| CI6-BZ#138                             | 76                |          |       | -             |           | 40-140              | -   |      | 30         |



**Project Name:** PEABODY TERRACE

Project Number: 210980

Lab Number: L1004342

**Report Date:** 04/01/10

| arameter                                | LCS<br>%Recovery | Qual      |       | CSD<br>covery | Qual      | %Recovery<br>Limits | RPD | Qual | RPD Limits |
|-----------------------------------------|------------------|-----------|-------|---------------|-----------|---------------------|-----|------|------------|
| CB Homologs by GC/MS-SIM - Mansfield La | ab Associated sa | ample(s): | 01-09 | Batch:        | WG405734- | -2                  |     |      |            |
| CI6-BZ#129/#158                         | 95               |           |       | -             |           | 40-140              | -   |      | 30         |
| CI7-BZ#187                              | 86               |           |       | -             |           | 40-140              | -   |      | 30         |
| CI7-BZ#183                              | 84               |           |       | -             |           | 40-140              | -   |      | 30         |
| CI5-BZ#126                              | 66               |           |       | -             |           | 40-140              | -   |      | 30         |
| CI7-BZ#174                              | 84               |           |       | -             |           | 40-140              | -   |      | 30         |
| Cl6-BZ#128                              | 84               |           |       | -             |           | 40-140              | -   |      | 30         |
| Cl6-BZ#167                              | 83               |           |       | -             |           | 40-140              | -   |      | 30         |
| CI8-BZ#202                              | 80               |           |       | -             |           | 40-140              | -   |      | 30         |
| CI7-BZ#177                              | 85               |           |       | -             |           | 40-140              | -   |      | 30         |
| CI8-BZ#204/#200-CAL                     | 78               |           |       | -             |           | 40-140              | -   |      | 30         |
| Cl6-BZ#156                              | 74               |           |       | -             |           | 40-140              | -   |      | 30         |
| Cl6-BZ#157                              | 76               |           |       | -             |           | 40-140              | -   |      | 30         |
| CI7-BZ#180                              | 65               |           |       | -             |           | 40-140              | -   |      | 30         |
| CI8-BZ#201                              | 86               |           |       | -             |           | 40-140              | -   |      | 30         |
| CI7-BZ#170                              | 86               |           |       | -             |           | 40-140              | -   |      | 30         |
| CI6-BZ#169                              | 90               |           |       | -             |           | 40-140              | -   |      | 30         |
| CI9-BZ#208                              | 78               |           |       | -             |           | 40-140              | -   |      | 30         |
| CI7-BZ#189                              | 82               |           |       | -             |           | 40-140              | -   |      | 30         |
| CI8-BZ#195                              | 79               |           |       | -             |           | 40-140              | -   |      | 30         |
| CI8-BZ#194                              | 81               |           |       | -             |           | 40-140              | -   |      | 30         |
| CI8-BZ#205                              | 80               |           |       | -             |           | 40-140              | -   |      | 30         |



**Project Name:** PEABODY TERRACE

210980

**Project Number:** 

Lab Number: L1004342

04/01/10

Report Date:

| Parameter                          | LCS<br>%Recovery     | Qual       |       | CSD<br>covery | Qual       | %Recovery<br>Limits | RPD | Qual | RPD Limits |
|------------------------------------|----------------------|------------|-------|---------------|------------|---------------------|-----|------|------------|
| PCB Homologs by GC/MS-SIM - Mansfi | eld Lab Associated s | sample(s): | 01-09 | Batch:        | WG405734-2 | 2                   |     |      |            |
| Cl9-BZ#206                         | 76                   |            |       | -             |            | 40-140              | -   |      | 30         |
| Cl10-BZ#209                        | 68                   |            |       | -             |            | 40-140              | -   |      | 30         |

|                | LCS       |      | LCSD      |      | Acceptance |   |
|----------------|-----------|------|-----------|------|------------|---|
| Surrogate      | %Recovery | Qual | %Recovery | Qual | Criteria   | _ |
| Cl3-BZ#19-C13  | 90        |      |           |      | 50-125     |   |
| CI8-BZ#202-C13 | 98        |      |           |      | 50-125     |   |



Project Name: PEABODY TERRACE Lab Number: L1004342

Project Number: 210980 Report Date: 04/01/10

# **Sample Receipt and Container Information**

Were project specific reporting limits specified?

**Cooler Information** 

Cooler Custody Seal A Absent

| Container Info | rmation                         |        |    | Temp  |      |        |                               |
|----------------|---------------------------------|--------|----|-------|------|--------|-------------------------------|
| Container ID   | Container Type                  | Cooler | рН | deg C | Pres | Seal   | Analysis                      |
| L1004342-01A   | PUF Air Cartridge - High or Low | Α      | NA | 1.2   | Υ    | Absent | A2-PCBHOMS-8270SIM(),PUF-LO() |
| L1004342-02A   | PUF Air Cartridge - High or Low | Α      | NA | 1.2   | Υ    | Absent | A2-PCBHOMS-8270SIM(),PUF-LO() |
| L1004342-03A   | PUF Air Cartridge - High or Low | Α      | NA | 1.2   | Υ    | Absent | A2-PCBHOMS-8270SIM(),PUF-LO() |
| L1004342-04A   | PUF Air Cartridge - High or Low | Α      | NA | 1.2   | Υ    | Absent | A2-PCBHOMS-8270SIM(),PUF-LO() |
| L1004342-05A   | PUF Air Cartridge - High or Low | Α      | NA | 1.2   | Υ    | Absent | A2-PCBHOMS-8270SIM(),PUF-LO() |
| L1004342-06A   | PUF Air Cartridge - High or Low | Α      | NA | 1.2   | Υ    | Absent | A2-PCBHOMS-8270SIM(),PUF-LO() |
| L1004342-07A   | PUF Air Cartridge - High or Low | Α      | NA | 1.2   | Υ    | Absent | A2-PCBHOMS-8270SIM(),PUF-LO() |
| L1004342-08A   | PUF Air Cartridge - High or Low | Α      | NA | 1.2   | Υ    | Absent | A2-PCBHOMS-8270SIM(),PUF-LO() |
| L1004342-09A   | PUF Air Cartridge - High or Low | Α      | NA | 1.2   | Υ    | Absent | A2-PCBHOMS-8270SIM(),PUF-LO() |



Project Name:PEABODY TERRACELab Number:L1004342Project Number:210980Report Date:04/01/10

#### **GLOSSARY**

#### Acronyms

EPA · Environmental Protection Agency.

LCS Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD · Laboratory Control Sample Duplicate: Refer to LCS.

MS • Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD · Matrix Spike Sample Duplicate: Refer to MS.

NA · Not Applicable.

NC • Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI · Not Ignitable.

RDL • Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

#### **Terms**

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

## Data Qualifiers

- A Spectra identified as "Aldol Condensation Product".
- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- ${f P}$  The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RDL. (Metals only.)
- **R** Analytical results are from sample re-analysis.
- **RE** Analytical results are from sample re-extraction.
- J Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND Not detected at the reported detection limit (RDL) for the sample.

Report Format: Data Usability Report



Project Name:PEABODY TERRACELab Number:L1004342Project Number:210980Report Date:04/01/10

#### REFERENCES

Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

## **LIMITATION OF LIABILITIES**

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Woods Hole Labs.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



# Certificate/Approval Program Summary

Last revised December 15, 2009 - Mansfield Facility

The following list includes only those analytes/methods for which certification/approval is currently held. For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

# Connecticut Department of Public Health Certificate/Lab ID: PH-0141.

Wastewater/Non-Potable Water (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Vanadium, Zinc, Total Residue (Solids), Total Suspended Solids (non-filterable), Total Cyanide. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Organic Carbon, Total Cyanide, Corrosivity, TCLP 1311. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

# Florida Department of Health Certificate/Lab ID: E87814. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: SM2320B, EPA 120.1, SM2510B, EPA 245.1, EPA 150.1, EPA 160.2, SM2540D, EPA 335.2, SM2540G, EPA 180.1. Organic Parameters: EPA 625, 608.)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7470, 7471, 9045, 9014. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

Air & Emissions (EPA TO-15.)

# Louisiana Department of Environmental Quality Certificate/Lab ID: 03090. NELAP Accredited.

Non-Potable Water (<u>Inorganic Parameters</u>: EPA 120.1, 150.1, 160.2, 180.1, 200.8, 245.1, 310.1, 335.2, 608, 625, 1631, 3010, 3015, 3020, 6020, 9010, 9014, 9040, SM2320B, 2510B, 2540D, 2540G, 4500CN-E, 4500H-B, <u>Organic Parameters</u>: EPA 3510, 3580, 3630, 3640, 3660, 3665, 5030, 8015 (mod), 3570, 8081, 8082, 8260, 8270,

Solid & Chemical Materials (Inorganic Parameters: 6020, 7196, 7470, 7471, 7474, 9010, 9014, 9040, 9045, 9060. Organic Parameters: EPA 8015 (mod), EPA 3570, 1311, 3050, 3051, 3060, 3580, 3630, 3640, 3660, 3665, 5035, 8081, 8082, 8260, 8270.)

Biological Tissue (Inorganic Parameters: EPA 6020. Organic Parameters: EPA 3570, 3510, 3610, 3630, 3640, 8270.)

# Maine Department of Human Services Certificate/Lab ID: MA0030.

Wastewater (Inorganic Parameters: EPA 120.1, 300.0, SM 2320, 2510B, 2540C, 2540D, EPA 245.1. Organic Parameters: 608, 624.)

# Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA030.

Non-Potable Water (Inorganic Parameters: SM4500H+B. Organic Parameters: EPA 624.)

# New Hampshire Department of Environmental Services Certificate/Lab ID: 2206. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: EPA 200.8, 245.1, 1631E, 120.1, 150.1, 180.1, 310.1, 335.2, 160.2, SM2540D, 2540G, 4500CN-E, 4500H+B, 2320B, 2510B. Organic Parameters: EPA 625, 608.)

# New Jersey Department of Environmental Protection Certificate/Lab ID: MA015. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: SW-846 1312, 3010, 3020A, 3015, 6020, SM2320B, EPA 200.8, SM2540C, 2540D, 2540G, EPA 120.1, SM2510B, EPA 180.1, 245.1, 1631E, SW-846 9040B, 6020, 9010B, 9014 Organic Parameters: EPA 608, 625, SW-846 3510C, 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082 8260B, 8270C)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6020, 9010B, 9014, 1311, 1312, 3050B, 3051, 3060A, 7196A, 7470A, 7471A, 9045C, 9060. Organic Parameters: SW-846 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082, 8260B, 8270C, 3570, 8015B.)

Atmospheric Organic Parameters (EPA TO-15)

Biological Tissue (Inorganic Parameters: SW-846 6020 Organic Parameters: SW-846 8270C, 3510C, 3570, 3610B, 3630C, 3640A)

### New York Department of Health Certificate/Lab ID: 11627. NELAP Accredited.

Non-Potable Water (<u>Inorganic Parameters</u>: EPA 310.1, SM2320B, EPA 365.2, 160.1, EPA 160.2, SM2540D, EPA 200.8, 6020, 1631E, 245.1, 335.2, 9014, 150.1, 9040B, 120.1, SM2510B, EPA 376.2, 180.1, 9010B. Organic Parameters: EPA 624, 8260B, 8270C, 608, 8081A, 625, 8082, 3510C, 3511, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 9040B, 9045C, SW-846 Ch7 Sec 7.3, EPA 6020, 7196A, 7471A, 7474, 9014, 9040B, 9045C, 9010B. Organic Parameters: EPA 8260B, 8270C, 8081A, DRO 8015B, 8082, 1311, 3050B, 3580, 3050B, 3035, 3570, 3051, 5035, 5030B.)

Air & Emissions (EPA TO-15.)

### Pennsylvania Department of Environmental Protection Certificate/Lab ID: 68-02089. NELAP Accredited.

Non-Potable Water (Organic Parameters: EPA 5030B, EPA 8260)

Rhode Island Department of Health Certificate/Lab ID: LAO00299. NELAP Accredited via LA-DEQ.

Refer to MA-DEP Certificate for Non-Potable Water.

Refer to LA-DEQ Certificate for Non-Potable Water.

# Texas Commission of Environmental Quality Certificate/Lab ID: T104704419-08-TX. NELAP Accredited.

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7470, 7471, 1311, 7196, 9014, 9040, 9045, 9060. Organic Parameters: EPA 8015, 8270, 8260, 8081, 8082.)

# **U.S. Army Corps of Engineers**

#### Department of Defense Certificate/Lab ID: L2217.01.

Non-Potable Water (Inorganic Parameters: EPA 3005A,3020, 6020, 245.1, 245.7, 1631E, 7470A, 7474, 9014, 120.1, 9050A, 180.1, SM4500H-B, 2320B, 2510B, 2540D,9040. Organic Parameters: EPA 3510C, 5030B, 9010B, 624, 8260B, 8270C, 8270 Alk-PAH, 8082, 8081A, 8015 (SHC), 8015 (DRO).)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312,3051, 6020, 747A, 7474, 9045C,9060, SM 2540G, ASTM D422-63. Organic Parameters: EPA 3580, 3570, 3540C, 5035, 8260B, 8270C, 8270 Alk-PAH, 8082, 8081A, 8015 (SHC), 8015 (DRO).

Air & Emissions (EPA TO-15.)

## **Analytes Not Accredited by NELAP**

Certification is not available by NELAP for the following analytes: 8270C: Biphenyl.

| H1.1.1.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | MIOS                  | Bashio           |                                                  | theit                          | Kell                                           | "3 125 NOTE !                                              |                       |                                                                                           |                                             | 6                                                                                      | Form No: 101-02 (19-Jun-09)       | Form No: 101                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------|--------------------------------------------------|--------------------------------|------------------------------------------------|------------------------------------------------------------|-----------------------|-------------------------------------------------------------------------------------------|---------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------|--------------------------------|
| Terms and Conditions. e                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                       | 5/25/0           |                                                  |                                | 1                                              | 2-25-11 1751                                               | \ \                   | Karr                                                                                      |                                             | 10: Killer Lullwan 425/10 K-55 Pers                                                    | u Lulliva.                        | C: Hille                       |
| submitted are subject to Alpha's                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <u>ي</u><br>ک         | U<br>U           | 7                                                | $\mathcal{L}$                  | 1                                              | 3/85/10 15/8/E                                             |                       | <b>X</b>                                                                                  | کے<br>پی                                    | 7 / J                                                                                  | \<br>\<br>\<br>\                  | 7                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Time:                 | Date             |                                                  | Received By:                   |                                                | Date/Time                                                  |                       | Relinquished By:                                                                          | Relinqu                                     | SISI OF ETTER YOUR STORY                                                               | LINCK!                            | 1100                           |
| Please print clearly, legibly and completely. Samples can not be comed in and furnished that the comed in and furnished that the comed in and furnished that the comed in and furnished that the comed in and furnished that the comed in and furnished that the comed in and furnished that the comed in and furnished that the comed in and furnished that the comed in and furnished that the comed in and furnished that the comed in and furnished that the comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a comed in a co | PUF                   |                  | er Type                                          | Container Type                 |                                                |                                                            | Outdoor)<br>ras/SVE   | AA = Ambient Air (Indoor/Outdoor) SV = Soil Vapor/Landfill Gas/SVE Other = Please Specify | AA = Ambie<br>SV = Soil Va<br>Other = Pleas | *SAMPLE MATRIX CODES S                                                                 | SAMPLE M/                         | *                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                  |                                                  |                                | :                                              |                                                            |                       |                                                                                           |                                             |                                                                                        | 1000                              |                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ~                     | E                | 10-104                                           | AUP PUP                        | AA Aw                                          | a 5 Ymin                                                   | 1356 6                | 11:5%                                                                                     | 38                                          | 9 PTB-CAR-S-0489                                                                       | 9 978                             |                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ~                     | 0                | · LP-66                                          | AUN PUF                        | AA A                                           | as Four                                                    | 1411                  | 18:11                                                                                     | 28/20                                       | PTC-CAR-133A-0488                                                                      | 8 PTC                             | 8 . 4 . 3:04                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ~                     | ~                | F8-97                                            | ALLIN PUF                      | AA A                                           | 25 YMIN                                                    | HOS !                 | 13,0%                                                                                     | 3/25                                        | TC-CAR-1332-0487                                                                       | ا الحاد                           |                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | *                     |                  | 1P-85                                            | AW PUF                         | AA A                                           | a.5 Ymin                                                   | 1341                  | 三                                                                                         | 3,35                                        | PTX-CAR-111302-0486 3125                                                               | ( PTX                             |                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ×                     |                  | LP-129                                           | ALW FOF                        | # #                                            | 2.5 Yman                                                   | (336)                 | 98:11                                                                                     | 3/25                                        | PTX-CAR-111302-0485                                                                    | J. PTX                            |                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ×                     | 6                | LR-176                                           | ALUN PUF                       | AA A                                           | a.5 Ymin                                                   | 1337)                 | 11.87                                                                                     | 3/25                                        | PTX-CAR-111103-0484                                                                    | Y 871X                            |                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | X                     | <b>-3</b> 0.     | 1.P-159                                          | ALLIN PUF                      | 42 42                                          | 2.5 /min                                                   | 1385                  | 1:25                                                                                      | 3/35                                        | PTX-CAR-111103-0483                                                                    | 7                                 |                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | X                     |                  | 12-20                                            | ALW PUF                        | AA A                                           | a.54min                                                    | 5015                  | <del>=</del> <del>·</del> · · ·                                                           | 3/25                                        | PTB-CAR-11510-0482                                                                     | 27 978                            |                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ×                     |                  | - F-1%                                           | ALW PUF                        | 44 A                                           |                                                            | 1307 2.54min          | 3/25/10 11:07                                                                             | 3/25/10                                     | PTB-CAR-11510-0481                                                                     |                                   | 12 H 2 H                       |
| 70 7   Sample Comments (i.e. PID)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | APH<br>FIXED          | Controller FO FO | I D<br>Can                                       | Sampler's Can<br>Initials Size | Sample Sam<br>Matrix* Init                     | Final Vacuum                                               | Time   End Time   Van | Start Time                                                                                | Date                                        | Sample ID                                                                              | ab ID<br>Only)                    | ALPHA Lab ID<br>(Lab Use Only) |
| 770.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | SIM                   | A by             |                                                  | Out                            | Filled                                         | All Columns Below Must Be Filled Out                       | elow                  | nns B                                                                                     | colun                                       | All C                                                                                  |                                   |                                |
| 10 PC<br>thom                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       | TO.15            | 8 Homel                                          | AACR                           | 10-lo                                          | a world (120 min) each. Analyze by To-loa-for PCB Homologs | in each               | 2 (130 M                                                                                  | a hours                                     |                                                                                        | 2.5                               |                                |
| Baog                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       | 1                | a,5 min to                                       | 15<br>15<br>18                 | locted a                                       | PUF martindae soumples collected e                         | + 1308                | PUF ON                                                                                    | ments:                                      | Other Project Specific Requirements/Comments:                                          | roject Speci                      | Other P                        |
| SIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ANALYSIS              |                  |                                                  |                                |                                                | Time:                                                      |                       | Date Due: 4/1/10                                                                          |                                             | Email: UND OCE WOOD BLOCK (MCMM)  These samples have been previously analyzed by Alpha | NOUNCE DE N                       | Email: 0.0                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       | W.COM            | e woodoudcustan.com                              | el@woc                         | jhame/6                                        | RUSH (only confirmed if pre-approved!)                     | RUSH (only cont       |                                                                                           | _ □ Standard                                | 7948                                                                                   | 978-557-7948                      | -ax: Q                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       | an com           | Ithan Project Manager)                           | different than Proje           | Report to: (if different than Project Manager) |                                                            | ë                     | Turn-Around Time                                                                          | Turn-4                                      | 978-557-8150                                                                           | 378-55                            | Ĭ.                             |
| Program Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | State/Fed             |                  | es:                                              | ☐ Additional Deliverables      | ☐ Additiona                                    |                                                            | -                     |                                                                                           | ALPHA Quote #:                              | Andorer MA 01810                                                                       | Andover                           |                                |
| Requirements/Report Limits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ory                   |                  | report)                                          | /AIL (standard pdi             | EMAIL (standard pdf report)                    | Jace                                                       | Amy Woulace           | Project Manager: A                                                                        | Project N                                   | Address: 35 N.F. BUSINGE 中个, #180                                                      | かべが もつ                            | Address: 2                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       | ndicated)        | (Default based on Regulatory Criteria Indicated) | ilt based on Reg<br>Formats:   | (Defau                                         |                                                            | Ŏ                     | Project #: 2010930                                                                        | Project #                                   | client Woodoud & Curran                                                                | octord s                          | Client: 🔥                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                  |                                                  | a Checker:                     | <b>⊠</b> ADEx<br>Criteria Cl                   | Project Location: Cambridge MA                             | unbootid              | ocation: 众                                                                                | Project L                                   |                                                                                        | Client Information                | Client In                      |
| nt info PD#:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ☐ Same as Client info | Te               |                                                  |                                | □ FAX                                          | Project Name: Pealoody Terraco                             | mpoop.                | lame: QOσ                                                                                 | Project N                                   | FAX: 508-822-3288                                                                      | TEL: 508-822-9300 FAX: 508-822-32 | TEL: 508-                      |
| nation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Billing Information   | verables         | nation - Data Deliverables                       | ormation                       | Report Inform                                  |                                                            | n                     | Project Information                                                                       | Project                                     | CHAIN OF CUSTODY                                                                       | Blud Manefie                      | 320 Eorho                      |
| # 1004342                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ALPHA Job#:           |                  |                                                  | in Lab:                        | Date Rec'd in L                                | OF                                                         | PAGE                  | SIS                                                                                       | NALY                                        | AIR ANALYSIS                                                                           |                                   |                                |

### PEABODY TERRACE - PROJECT SUMMARY

Analytics Environmental Laboratory Job Number: 65968 & 65979

A modified Tier II validation was performed on the data. The criteria detailed below were used to qualify the data. Raw data were not used to verify the results reported by the laboratory.

Samples were received at 1.5 and 4.0 degrees Celsius. Although some temperatures were less than 2.0 degrees Celsius, the samples were not frozen and no qualifications will be applied.

#### PCBs:

All polychlorinated biphenyl compound (PCB) samples were extracted and analyzed within technical holding times. No qualifications will be applied.

All PCB surrogates met acceptance criteria (30%-150%) or were diluted out with the following exceptions:

| LAB ID   | SAMPLE ID           | TCX (%/%) | DCB (%/%) | QUALIFIER          |
|----------|---------------------|-----------|-----------|--------------------|
| 65968-11 | PTX-CBK-1012-0388   | OK/OK     | OK/26     | None, only one out |
| 65968-23 | PTX-CBCQ-1012-0400  | OK/OK     | 21/24     | UJ, all non-detect |
| 65968-28 | PTX-CBK-111103-0405 | OK/OK     | 192/OK    | None, only one out |
| 65968-29 | PTX-CBK-111103-0406 | OK/OK     | 272/OK    | None, only one out |

TCX = tetrachloro-m-xylene

DCB = decachlorobiphenyl

The PCB method blanks were non-detect (ND) for all target analytes with the following exception. PCB-1254 was detected at 763  $\mu$ g/kg in one method blank. Since all associated samples were ND for PCB-1254 or the sample concentration was greater than the blank action concentration, no qualifications will be applied.

The PCB field blank samples PTX-CBCQ-1012-0400 (65968-23), PTX-CWKQ-111103-0408 (65968-31), PTB-CBCQ-1432-0463 (65979-44), and PTC-CBKQ-1332-0479 (65979-60) were ND for all target analytes. No qualifications will be applied.

PCB matrix spike/matrix spike duplicate (MS/MSD) performed on samples PTX-CBC-1011-0378 (65968-1), PTX-CBK-1012-0386 (65968-9), PTX-CBK-111103-0404 (65968-27), PTB-CBC-1432-0423 (65979-4), PTB-CBK-11510-0451 (65979-32), and PTX-CBK-111302-0468 (65979-49) met acceptance criteria (PCB-1016/65%-140%, PCB-1260/60%-130%) with the following exceptions. The MS/MSD of samples PTX-CBK-1012-0386 (65968-9), PTX-CBK-111103-0404 (65968-27), PTB-CBK-11510-0451 (65979-32), and PTX-CBK-111302-0468 (65979-49) were not useable due to the dilution required as a result of the PCB-1254 concentration in the native sample.

The PCB laboratory control sample (LCS)/laboratory control sample duplicate (LCSD) met acceptance criteria [(soil 65%-140% PCB-1016, 60%-130% PCB-1260) and (water 81%-112% PCB-1016)] with the following exceptions:

| LCS/LCSD ID            | PCB-1016 (%)      | PCB-1260          | QUALIFIER            |
|------------------------|-------------------|-------------------|----------------------|
|                        | LCS/LCS/LCSD/LCSD | LCS/LCS/LCSD/LCSD |                      |
| L/LD030310PSOX2        | OK/OK/OK/OK       | 170/141/169/ok    | None, samples ND     |
| L/LD030810PWB          | OK/66/OK/70       | OK/OK/OK/OK       | UJ, PCB-1016 in      |
|                        |                   |                   | PTB-CBCQ-1432-0463 & |
|                        |                   |                   | PTC-CBKQ-1332-0479   |
| L/LD030410PSOX2RR,,A/C | OK/OK/142/OK      | OK/OK/134/OK      | None, only one out   |

Additionally, the relative percent difference (RPD) values for PCB-1016 (50.3%) on column #1 and PCB-1260 (36.0%) on column #2 exceeded acceptance criteria ( $\leq$ 35%) in one of the soil LCS/LCSD and for PCB-1016 (23.3%/26.4%) on both columns exceeded acceptance criteria ( $\leq$ 20%) in one of the aqueous LCS/LCSD . No qualifications are applied on LCS/LCSD RPD.

### PEABODY TERRACE - PROJECT SUMMARY

# Analytics Environmental Laboratory Job Number: 65968 & 65979

PCB field duplicate samples PTX-CBC-1012-0379 (65968-2)/PTX-CBCD-1012-0385 (65968-8), PTX-CWW-111103-0417 (65968-40)/PTX-CWWD-111103-0418 (65968-41), PTB-CBC-1432-0421 (65979-2)/PTB-CBCD-1432-0422 (65979-3), PTC-CBC-1332-0433 (65979-14)/PTC-CBCD-1332-0434 (65979-15), and PTC-CWK-1332-0435 (65979-16)/PTC-CWKD-1332-0436 (65979-17) met acceptance criteria. No qualifications will be applied.

The RPD between the column results for all detected PCBs met acceptance criteria (≤25%) with the following exceptions:

| LAB ID   | SAMPLE ID           | PCB  | RPD  | QUALIFIER |
|----------|---------------------|------|------|-----------|
| 65968-11 | PTX-CBK-1012-0388   | 1254 | 56.5 | J         |
| 65968-27 | PTX-CBK-111103-0404 | 1254 | 25.8 | J         |
| 65968-28 | PTX-CBK-111103-0405 | 1254 | 90.0 | J         |
| 65968-29 | PTX-CBK-111103-0406 | 1254 | 64.1 | J         |
| 65968-30 | PTX-CBK-111103-0407 | 1254 | 74.6 | J         |
| 65979-7  | PTB-CBC-1432-0426   | 1254 | 30.2 | J         |
| 65979-9  | PTB-CBK-1531-0428   | 1254 | 53.4 | J         |
| 65979-11 | PTC-CBK-1332-0430   | 1254 | 69.6 | J         |
| 65979-12 | PTC-CBK-1332-0431   | 1254 | 31.0 | J         |
| 65979-17 | PTC-CWKD-1332-0436  | 1254 | 31.4 | J         |
| 65979-22 | PTC-CBK-1332-0441   | 1254 | 30.8 | J         |
| 65979-24 | PTC-CWK-1332-0443   | 1254 | 43.4 | J         |
| 65979-25 | PTC-CBK-1332-0444   | 1254 | 61.5 | J         |
| 65979-38 | PTB-CWW-11510-0457  | 1254 | 31.0 | J         |
| 65979-41 | PTB-CWT-11510-0460  | 1254 | 37.2 | J         |
| 65979-45 | PTX-CBK-111302-0464 | 1254 | 27.8 | J         |

All bulk (concrete and caulk) samples were analyzed at dilutions due to the high concentration of PCBs present in the samples and/or due to sample matrix. Elevated quantitation limits are reported in these samples as a result of the dilutions performed.

No result was provided for sample PTC-CWD-1332-0440 (65979-21) since the sample extract was lost due to a laboratory accident.

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Gloria J. Switalski:

President

Date: 03/26/2010